

Manufacturers Record

Exponent of America

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MARCH 19, 1925



Where Do You Stand on the Tariff?

A recent editorial in the Manufacturers Record, under the above heading, has awakened widespread interest throughout the country. Many letters have come in reply to that editorial, all of them, with two or three exceptions, being very pronounced in favor not only of maintaining the present tariff but of building up a higher tariff.

It is an interesting fact that most of these letters are from great industries scattered throughout the South. With only one exception, and that communication was not intended for publication, every letter received from the South has been in favor of the position taken by the Manufacturers Record. The Southern letters have come from bankers, lumbermen, general industrial interests, commercial organizations and others, scattered all the way from Virginia to Texas, giving a very pronounced indication of the increasing trend of Southern thought to the need of a protective tariff high enough to save the agricultural and industrial interests of this section from being injured by heavy importations of the cheaply raised agricultural products of India, China and Manchuria, and from the cheaply produced pig iron of India and the steel and cement of Europe. India, with its wages from seven and eight to ten and twelve cents a day in iron and steel work, can produce pig iron at a price with which American iron interests cannot compete. And the rate of freight, according to one of these letters, from Calcutta to Philadelphia is less than from Pittsburgh to Philadelphia.

With Germany's rate of wages, as shown by the Dawes report, averaging about one dollar or a little over a day for skilled labor; with these German interests entirely free from bonded or mortgage indebtedness by reason of their having wiped out their bonds by the repudiation of marks—a diabolical scheme for robbing the world—Germany is pouring its products into America in competition with the output of American factories in which living wages are paid. According to a report recently compiled by the Moody Service, Germany at the beginning of 1925 had only 436,000 people unemployed, or 7.29 per cent out of each 1000 of its population, while the United States had 2,100,000 unemployed, or 19.09 per cent to each 1000 of population.

England ranked highest in the percentage of unemployment with 26 people out of every 1000 inhabitants out of work, while France has only 0.30 per cent per 1000 of population out of work. Hungary, Italy, Poland, Switzerland, Sweden and other European countries ranked exceedingly strong in the small percentage of unemployment, running from about 2.42 per cent to 3.25 per cent unemployed for each 1000 of inhabitants. Thus these European countries, with the exception of Great Britain and Austria, had a very much smaller percentage of people out of work than the United States. And the greater the importation of foreign goods, the greater will be the increase of unemployment in this country. It is time for the American people of all sections to rally to an insistent demand for a tariff sufficiently high to protect us from what would be an overwhelming disaster if our tariff should be lowered or, indeed, if we should fail to advance our tariff.

In the Manufacturers Record of next week will be published a symposium of the letters received in the discussion of this tariff question. They should be studied carefully by every business man in the country. That issue will be invaluable to every man of every section who is watching the business situation and studying the trend of thought.

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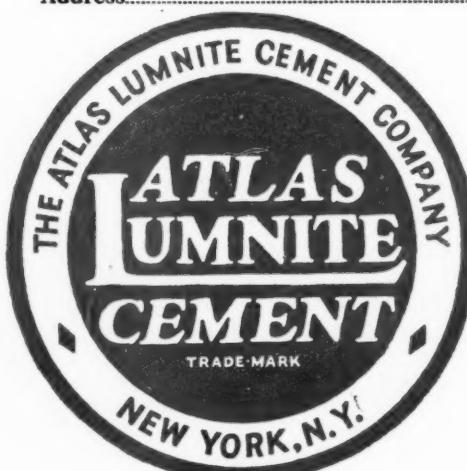
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MARCH 19, 1925

Manufacturers Record

EXPOSER OF AMERICA

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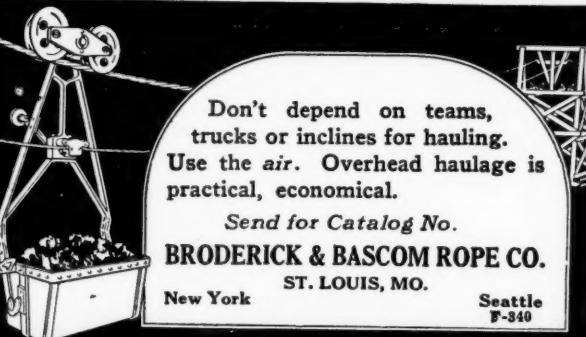
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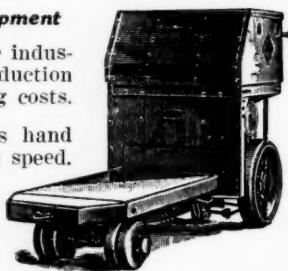
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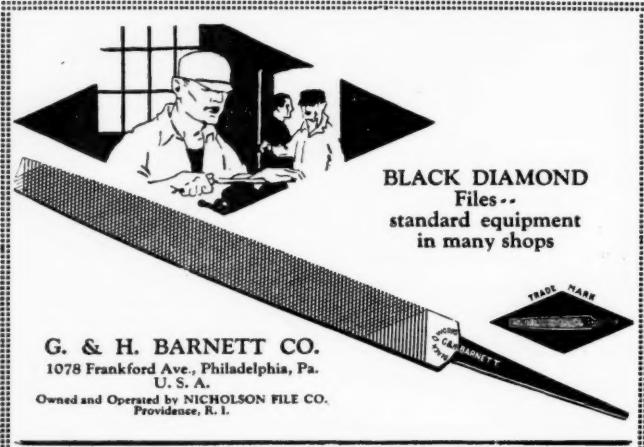
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Manufacturers Record

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Weekly

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A Challenge to the South.

THE Southern Exposition to be held in New York in May will afford an opportunity to the South for national publicity through the visit of hundreds of thousands of people and through newspaper work such as it has never had before. The state or the city that fails to utilize this opportunity will lose a chance which it has never had under similar circumstances or under such advantageous conditions. For the first time the South will undertake to show in New York something of the wealth of its resources and some of its achievements in manufacturing and mining.

This movement has the hearty commendation of the New York Chamber of Commerce, one of the greatest commercial organizations in the world; the Merchants' Association of New York, the Southern Society of that city, and individually many of its leading men and pre-eminently natives of the South who hold prominent positions in the commercial and financial life of New York. It will have the hearty co-operation of these interests. It will give to Eastern papers such an opportunity of telling the story of the South and its resources as has never before been presented to them. Not alone will New York people visit the Exposition, but many from the entire East. Merchants, manufacturers, investors, homeseekers will all study the exhibits at the Southern Exposition, not merely for the gratification of seeing them but in order to investigate the possibilities for new enterprises or investments of home making in the South.

Some Southern states and cities have lagged behind. It will be their loss if they do not immediately awaken to the importance of the situation and make the best exhibits possible. Georgia was for a while one of the states in this class, but Georgia is coming to the front with a rush. In the closing hours of the last session of the legislature one house passed an appropriation of \$15,000 for a strictly state exhibit. For lack of time this failed in the other branch, and the people of the state apparently abandoned any idea of raising the money through public subscriptions, or at least no aggressive effort to that effect was made. Some great concerns like the Georgia Railway & Power Co., however, planned for large individual exhibits and that concern will make an extensive and expensive exhibit of its own work in connection with the development of Georgia.

There was, however, one man in the state who had the vim and the energy to determine that if it were humanly possible Georgia should make a state exhibit. He presented the matter to the Governor. As the older organization had failed in the matter, the Governor called upon the Junior Chamber of Commerce of Atlanta to assume the responsibility for raising the money for this state exhibit. The officers and directors met, discussed all the difficulties, caught the enthu-

siasm of the hour and determined that they would undertake to do the work.

They went at it with a rush. The newspapers agreed to back them to the limit. Committees were appointed and the members have been traveling from one part of the state to the other at their own expense securing subscriptions and co-operation in the campaign, and a letter to the MANUFACTURERS RECORD says that these subscriptions are even coming in by wire, so eagerly have the people awakened to this opportunity.

The result of the work of this Junior Chamber of Commerce will be an inspiration to every member and to the people of the whole state. It will quicken the older folks and make them feel that the young men of Atlanta are setting them an example worthy of emulation. The reflex action on the state of Georgia will perhaps be even greater than the direct value of the Exposition itself. It will sweep away the pessimism that has ruled in much of the state. It will stimulate every man and woman in Georgia to think of the resources of their own state and the possibilities for their utilization.

What has been done in Georgia can be done in every state in the South that is lagging behind, if some one determined aggressive man will take the lead and demand that his state or his city shall be represented. It would be better for a group of men to get together on the work, but surely in every state in the South there are some men who are not willing to see the space allotted to their state left vacant. What a travesty this would be upon the enterprise of the missing state and how the people and the papers of the East would feel that that state had failed to make the most of its opportunity!

The city of Baltimore has appropriated \$6000 for the purpose of making a municipal exhibit. This amount, of course, will have no connection with the state exhibit or the individual exhibits. It is merely an effort of the city itself through a municipal exhibit to present some of the advantages and attractions of Baltimore. It is expected that from the state and from the business interests, especially of Baltimore, there will be many splendid exhibits, and every city in the South which wants to match itself in natural advantages for industry and commerce against Baltimore should bestir itself and give to Baltimore a vigorous run for its money.

Time is short for the states which have lagged behind, but there is still time enough to accomplish the desired results in every state or every city which has the energy and the aggressiveness to prove the mettle of which it is made. The very quickness with which these matters could be handled by the right kind of energy would prove that the South is not a land of easy-going business methods, but a land of everlasting hustle and activity, a land in which miracles can

be wrought in material things backed by the energy of its people.

It is not too late for the cotton-mill interests to make an exhibit which would show the variety and extent of this great industry. It is not too late for these interests to show the character of their product, the character of their operatives, the character of the mill villages in which these employes live. If the cotton manufacturers of the South are alert to the situation, even though the time may be short and the work involved may cost some money, they can prepare an exhibit which would do them and the South immeasurable good. Are there not some cotton-mill people in this section who are broad enough and quick enough in action to determine that such an exhibit shall be held, and if it cannot be brought about by combined activity to make an exhibit of their individual mill interests? The lumber interests of the South, the coal and the oil and the iron-ore interests should be represented. Southern furniture is running rival in quantity and quality to the best made in the United States. Here is an opportunity of unequaled importance to the furniture people to show what they are producing in this section.

There are a thousand and one other lines of industry which should be represented either individually or collectively through the state exhibits. The Alabama Power Company, like the Georgia Railway & Power Co., will make a great exhibit of its work. The Tennessee Coal, Iron & Railroad Co., a subsidiary of the Steel Corporation, will show phases of its work and its product. The fact that great organizations of this kind recognize the importance of the Exposition and are spending money freely to be represented there should stimulate every other line of business in the South. When the Mayor of Atlanta saw the situation and realized that there was a danger that his city would not be represented, he vowed with emphasis "*Atlanta should be at the Southern Exposition.*" How many other mayors, how many other governors, how many other commercial organizations in the South will follow the example of the Governor of Georgia, the Mayor of Atlanta and the Junior Chamber of Commerce of that city? There is time enough, but no time to be lost.

DOES OLEOMARGARINE MILITATE AGAINST DAIRYING IN THE SOUTH?

ELSEWHERE in this issue Craddock Goins of Milwaukee, editor of several Western daily papers and an enthusiastic advocate of dairying in the South, gives his views in regard to the effort of some Western states to prevent the sale in those states of oleomargarine. According to the figures given by Mr. Goins, the oleomargarine industry is a comparatively small consumer of cottonseed oil, whereas the dairying interests of the West are very heavy users of cottonseed products.

Mr. Goins thinks that the oleomargarine interests have always worked a successful campaign in the South to induce this section to stand up for oleomargarine to its own serious disadvantage as against the possibility of developing the dairying business in the South.

The position which he takes is an extremely interesting one. The question has never been presented to the public from that angle so far as we know. We do know, however, that the oleomargarine interests have for many years fought very vigorously to encourage the idea in the South that the development of the oleomargarine industry would be of great value to this section by increasing the consumption of cottonseed oil. If this militates against the development of the dairy interest, as claimed by Mr. Goins, entirely new light is thrown upon the situation and the matter should be studied from this as well as from every other angle.

PRESIDENT COOLIDGE AS SEEN BY A SOUTHERN LAWYER.

H ENDERSON HALLMAN, a prominent Atlanta attorney and a Democrat, in a recent letter to the MANUFACTURERS RECORD referring to a lengthy interview he recently had with President Coolidge said:

"The press of the country has made the President a silent, non-communicative and unresponsive man. I found him everything that I had not understood him to be. He is a warm-blooded, hearty, jovial and communicative *he-man*. His head is cool, all right, but he is full of good nature, and I believe he is a great man and is going to make us one of our greatest Presidents.

"Even if it could have been said that he is accidental, as far as the country is concerned, I consider it Providential.

"The President really did the talking and I did the listening—answering questions only when he asked them—but to such length that he was able to form some opinion as to whether my knowledge was full or superficial of the things asked about.

"I was never treated more graciously by anybody, and I am *in favor of the President, first, last and always*, and it is going to be with great pride and pleasure that I set the minds of those with whom I come in contact right about him as a *man* and as a *President*."

THE AMERICAN MINING CONGRESS AND THE CHILD LABOR AMENDMENT.

A T a recent meeting in Atlanta of the Board of Governors of the Southern Division of the American Mining Congress, Herbert Wilson Smith, representing Secretary Callbreath, who could not be in attendance, in broadly discussing the activities of the Mining Congress gave an interesting view in regard to the Child Labor Amendment. Touching on this he said:

"The Mining Congress at its convention in Sacramento adopted a resolution which brought down on us the storm of disapproval of the state where we were meeting, the state of California. We adopted a resolution opposing the so-called Child Labor Amendment, which should be called the Juvenile Idleness Amendment. The opposition of the Mining Congress was not based on the fact that the mining industry employs juvenile labor. It does not. The opposition of the Mining Congress was based on its opposition to those types of reformers who, when they want to bring about some supposedly broad-minded, visionary policy which is contrary to law, take a pot shot at the Constitution and try to shoot a hole through it big enough so they can pass their so-called reform.

"Immediately the newspapers of California, and all of the sensational press of the country, jumped on us, and said that the mining industry wants to keep the little children at work in the mines; they want the little boys there where the hanging rocks and loose dirt can destroy them. Anybody who knows anything about mining knows that there is no juvenile labor in the mining industry, and any newspaper man who writes or approves an editorial of that character must have his tongue in his cheek. The mining industry recognizes that problem not as a mining problem, but as a broad national problem which it stands unalterably opposed to—a problem which affected such states as New Mexico, with its large native Mexican population; a problem which largely affects the South, with its large colored population. What, in the name of Heaven, would we do with idle colored boys up to the time they were 18 years of age? And what would we do out in New Mexico with idle native Mexicans who should be out herding sheep?

"The opposition of the Mining Congress was one of the many factors which prevented the definite adoption by various states of this proposal to nationalize the children of the United States; to put the children of the United States under another Federal bureau."

HOW THE GOVERNMENT WOULD BRING UP AMERICAN CHILDREN.

MERELY tilting a trifle the lid of the caldron in which stews the olla podrida of Federal commissions, boards bureaus, councils and so on, Representative James F. Byrnes of South Carolina recently gave some idea of what well might be expected if ratification of the so-called Child Labor Amendment should give the Government control of American childhood and youth which God gave to their parents. Speaking on a bill to appropriate \$452,000,000, "not for the regular establishments of the Government but for independent offices," Mr. Byrnes gave concrete instances of only the wicked waste and silly nonsense of several of these Federal agencies.

"One of the activities provided for in this bill," said Mr. Byrnes, "is the Federal Board for Vocational Education. Some one has sent me one of the bulletins issued by that board. It is entitled 'Diary of Homemaking Activities,' in which the women of America are told that they should carefully note all of their activities during the day, and in order that they might be fully advised a sample is furnished of what information should be jotted down, from which I read:

"Saturday, November 5. 6.30-7: Dressed self; waked husband; opened doors and windows downstairs; prepared breakfast. 7-7.30: Ate breakfast; planned evening party with husband; called children. 7.30-8: Dressed baby; combed Alice's hair; helped Billy put on his overalls; gave children breakfast. 8.30-9: Put kitchen and dining room in order. 9-9.30: Gave baby his bath; planned luncheon and dinner. 9.30-10: Put house in order. 10-10.30: Gathered peas out of garden. 10.30-12: Minded baby; mended husband's shirt; hunted his tie; washed and ironed waist. 12-1: Gave children luncheon. 1-1.30: Inquired about sick neighbor; planned the afternoon for the children; punished Billy for hurting Alice."

At which point Mr. Byrnes paused in the detailed narrative of this busy woman's activities and turned to quotation of the information sought by this particular busybody board as follows:

"Name all the different kinds of planning jobs which you must do and which were not listed in the day's work. For example, planned to spend a month's income so as to save for a new rug; planned a new coat for Jane out of my old skirt; planned to store winter clothes; store vegetables for the winter."

"I note," interrupted Representative Otis Wingo, mayhap irreverently, "that one of the entries in that model diary is that the woman punished Billy. Does the diary disclose the proper method to use, whether it is the old method or the modern method?"

"No: that is one of the oversights," replied Mr. Byrnes; "but I am sorry my friend has suggested it, because I fear the department will note the suggestion and issue a new bulletin next week."

One of the worst features in such a disclosure of the asinine conduct of these Federal agencies is that it is so ludicrous and mirth-provoking that Congress and the people ignore the wicked waste and un-American paternalism of the Federal Government, and simply laugh at the Government jackasses and their performances. Even in editorial comment a writer is moved to levity and to perpetrate a humorous effusion on a subject of tremendous importance.

Even worse than the waste of the people's money, which President Coolidge has pledged himself and the entire Government to curtail and to prevent as far as may be possible, is the Government paternalism demonstrated in the activities of these boards, commissions, councils and bureaus. The superlative would be reached in Government control and foster-parentage of the children and youth of the land.

First, supposing that the Twentieth Amendment should be ratified, what would the nation then reasonably expect

from the Government? First, through legislation compelled by the foreign and American Reds who sponsor this Amendment, would be the creation of one or more bureaus or boards for control and management of the children and youths thus kidnapped from their parents by a Government run on Bolshevik principles of the nationalization of children. Such bureaus and boards, as proved by experience in collateral agencies, would be composed, first, of representatives of the Bolshevik group who urged the Amendment and legislation; and, second, of old maids—male and female—theorists, busybodies and men and women nin-compoops. It is almost certain that the Youth Movement proponents would have strong representation in such boards, they being among the foremost in reinforcement of the professional and amateur Reds who have led the Amendment campaign.

Thus established in power, with millions of dollars appropriated for their purpose, these Federal foster-parents of America's children would run amok. One hardly can picture the extreme to which they would go. First and foremost they would turn to the principles, policies and practices of Soviet and Godless Russia, the pioneer in the nationalization of children, and undoubtedly would adopt the procedures of Russia. It is not the slightest exaggeration to say that to teach a child religion would be constituted a crime, or at least a misdemeanor. Under the Bolshevik composition of these children's boards the children would be taught that God is a myth, or, if a reality, an enemy of mankind against whom human warfare must be waged, as in Russia. Marriage, described by the Bible as a rite of the most profound sacredness and solemnity, would be deprecated and the "free love" practices of the Youth Movement would be substituted. Indiscriminate production of children, without heavenly or earthly sanction and blessing, would be encouraged, as such children would know as parents only a Bolshevik Government and its Red agencies—the children would be taught to breed as do the beasts, on reaching maturity.

This is not at all a fantastic picture: it is an actual forecast of what may reasonably and logically be expected if the United States become so sovietized as to adopt the Russian plan of childhood nationalization, under the same guidance as that which controls the children in Russia. The waste and idiotic performances of such Government bureaus would pale into insignificance beside the indescribable evils barely indicated in the foregoing paragraphs.

Are the people of God-fearing America prepared, through the Child Labor Amendment and supplementary legislation, to turn over their children to such a board, or even to the care of a Government which would embrace such a board? It is unthinkable!

WE ARE TRYING TO DO THE SAME FOR EVERY SOUTHERN STATE.

HON. LAWRENCE Y. SHERMAN, for many years United States Senator from Illinois and now president of the First National Bank of Seabreeze, Fla., in a letter to the MANUFACTURERS RECORD says:

"Florida has assets the rest of the country ought to know about. It is way ahead of any place else as a winter resort. Its climate and scenic attractions never weary. Winter vegetables and fruits can be produced here for the whole country.

"The MANUFACTURERS RECORD is a publicity pioneer for Florida. It has never ceased to tell everybody what Florida has and is. The way has been blazed by the RECORD for thousands of people and millions of money. Its encyclopedia of Southern resources published by the RECORD, known as 'The South's Development,' is a signal instance of what it has done along this line. Florida has profited immeasurably by the MANUFACTURERS RECORD."

"GEORGIA WILL BE THERE."

UNDER the above heading the Junior Chamber of Commerce of Atlanta has issued an interesting leaflet containing the announcement of Governor Clifford Walker entitled "A Call to Arms," in which the Governor called upon the Junior Chamber of Commerce to take charge of the matter and raise \$20,000 for a state exhibit at the Southern Exposition.

The Junior Chamber of Commerce has organized a committee representing all parts of Georgia, and these men are now making an aggressive campaign throughout the state, not only for the purpose of raising the needed money but for the purpose of arousing a more widespread interest among the people in the potentialities of their own state.

Henderson Hallman, a leading lawyer of Atlanta, in a letter to the MANUFACTURERS RECORD says:

"Some 25 men of the Junior Chamber are off now in different parts of the state soliciting subscriptions. They are doing the whole work themselves, *paying their own expenses out of their own pockets*, and are determined to raise the \$20,000. They have a luncheon tomorrow to which the leading men of the town are invited, and we are expecting the real enthusiasm on the part of the people of Atlanta to start at that luncheon."

It is good to see the enthusiasm of the members of the Atlanta Junior Chamber of Commerce. It is in their power to stir all of Georgia to a new enthusiasm for the larger development of the state. There has been more or less pessimism in some parts of Georgia. Three bad crop years depressed the farmers, and many merchants and bankers who deal with the farmers. There has been some disposition for Georgia people to move to other places. But if once the state will catch the spirit of enthusiasm breathed into it in early days by Henry Grady, Evan Howell, I. W. Avery, J. H. Estill, Pat Walsh, and other editorial geniuses, who made the whole state of Georgia fairly ring with the story of its resources and possibilities, it will go over the line for the Exposition without difficulty.

As important as the Exposition is to Georgia, and as great as will be the direct results, the greatest good will come to the state from the awakening spirit created by the activity of the young men of Atlanta. This is a great opportunity, and opportunity spells responsibility. What they are doing in this campaign will largely indicate what Georgia will do in coming years. They can wipe out the spirit of pessimism; they can quicken the enthusiasm of the people of the whole state for the truly marvelous resources with which Georgia has been endowed. With its superb climate, stretching from the warmth of the seacoast through the Piedmont section to the mountain region, Georgia has climatic advantages of exceptional value. Its resources in marble, granite, clays, water-powers and many other things are so great that it is difficult to forecast the possibilities of the wealth that may be created when once Georgia again turns wholeheartedly and untiringly to industrial and agricultural development.

We congratulate the Junior Chamber of Commerce of Atlanta upon its opportunity and upon the enthusiasm with which its members have taken hold of the task.

WE WISH HIS WISH COULD BE REALIZED.

E. H. DAVIDSON, managing director of the Citizens' Alliance of St. Paul, Minn., in a letter to the MANUFACTURERS RECORD said:

"The trouble with your magazine is that if one tells the truth about it, the rank and file will not believe it."

"Your last issue was delivered here this morning, and after glancing over the table of contents I remarked to my assistant, 'This is the first time in the year that there hasn't been anything in the MANUFACTURERS RECORD that seems of special interest.'

"The trouble was that the table of contents didn't represent the contents matter, for upon further perusal of the number

I discovered three articles that I think are probably the best I have ever seen on subjects of the first importance.

"Dr. Pirkey's article on 'Sovietism—the Self-Appointed Protector of the Home' is one of the strongest articles that I have read touching on the proposed Twentieth Amendment, and I have read everything that I could get; Dr. Slagle's article, 'How Shall We Increase the Sense of Responsibility of Citizens to Vote?' is most timely, and Fred Marvin, on 'The Oil Trial at Los Angeles,' ought to have as widespread publicity as was given the so-called scandal.

"I only wish that every American citizen could read the MANUFACTURERS RECORD."

This is the way the MANUFACTURERS RECORD is viewed in other parts of the country by people who are studying the development of the South. And the facts which it carries are broadening the knowledge of this section among the people of the North and the West, as illustrated in this interesting letter from Mr. Davidson.

SHOULD HOLD NEXT MEETING IN CENTRAL SOUTH.

THE National Association of Manufacturers announces that it will hold this year's convention in St. Louis. For some years the meetings have been held in New York, but in the early days of its existence this organization held its meetings in different parts of the country. One meeting was held some years ago in Atlanta, bringing that organization and the South into immediate touch.

We suggest that an effort should be made by leading cities of the South to induce the Association to hold its next meeting at some point in the central South.

The bringing together of the members of the Association from the North and the West into direct and intimate touch with the business men of the South would be to the advantage of all. It would help to create a personal acquaintance and friendship of men from different sections and would give to the members from other parts of the country the opportunity of seeing the great resources and progress of this section.

Meetings of this character should as often as possible be held in the South, the least understood section of the Union but the one with which manufacturers throughout the country must come more and more into closer touch, for the upbuilding of the nation can only come in a large way through the development of the South.

HOW TO DO GOOD FOR THE SOUTH.

THE Alabama Power Company sends to us a copy of a letter received from Mrs. J. O. Donaldson, president of the Parent-Teacher Association of Aberdeen, Miss., in which she writes:

"I want to express my thanks and appreciation of the copy of the December issue of 'The South's Development' which you sent me as president of the Parent-Teacher Association.

"Just a few weeks ago we used articles from this issue of the MANUFACTURERS RECORD for our program in the Woman's Club, and we recommended it to each lady present as an issue she should get for her children to read to help them appreciate more fully the wonderful development of the South.

"I am especially glad to have it and thank you very much for its gift."

Thus "The South's Development," wherever it has been placed in the hands of teachers and others, is being used as a means of awakening the young people and the old people of the South to the possibilities of this section. The Alabama Power Company made a wide distribution of "The South's Development" among Southern people to awaken them to a realization of their own section's potentialities. It also distributes widely—as do other companies—the Blue Book of Southern Progress to home people and to people of other sections for the good of the South.

THIS BANK SETS A GOOD EXAMPLE TO ALL OTHERS.

CONSTRUCTIVE effort and co-operation of the most practical kind find concrete form in the publication by the Citizens Bank of Moultrie, Ga., of an agricultural periodical which it calls Rural Community Progress, and of which it tells the object in a letter by President R. M. Morrison on the cover page:

"Dear Readers:

"Maybe you have wondered why we are sending you Community Progress.

"It is sent to you with the hope that it may carry some practical suggestion about farming, about living and about 'getting ahead' in the world. It is printed and circulated with the hope that it may interest boys and girls, and that it may carry to them some story of success that will inspire them and start them off with faith and courage to make a success in life. It is sent to carry a little more wholesome reading for the family.

"It merely expresses the attitude of this bank to the community and our interest in our people. We stand for development, for better methods and a greater prosperity.

"The stories of success, thrift, and new and practical methods that come to us we pass on to you for what they are worth. We love to relate stories of success. It will help us all to read more about success, think more about success and talk more about success.

"When you have a good story, give it to us to be published in the magazine.

"When this bank can serve you, command us freely."

Most significant of the characteristics in the eight-page number is the evident sincerity of purpose to help the readers—not that the bank probably has not some material interest of its own, but that it seeks to help its readers first, and to help itself by helping others.

Evidently the bank officials are believers in the "personal touch"—in close, almost intimate, contact with the people of their territory; and this "personal touch" is of the highest value in finance and business, in politics, and even in religion. For example, a newspaper reporter who calls on a man in person gets a much better interview than one who obtains it "over the telephone." In such a territory as that covered by the Citizens Bank, however, such direct personal contact with all the residents may not be possible, or even practicable, and the bank's plan of a helpful publication, and the nature of its publication, may be regarded as the next best thing.

It may be that the most significant and most important feature of this enterprise is that it shows the bank to be "human," and so impresses on the readers the idea that all banks are "human," and are not necessarily the aloof, inaccessible—almost, refrigerating—institutions which many persons think them to be. In years gone the average bank and banker were regarded, especially in rural sections, as financial aristocrats of highest caste—"moving in a higher sphere," as the late E. H. Harriman once expressed it; as men beneath whose feet all other men, particularly farmers and "countrymen," were clods of common clay. Those days are passing—are almost passed; and it is such a policy of friendly co-operation as that shown by the Citizens Bank which has induced this change.

Beyond its hope that Rural Community Progress "may carry some practical suggestion about farming, about living and about 'getting ahead' in the world," the bank trusts that it "may interest boys and girls, and that it may carry to them some story of success that will inspire them and start them off with faith and courage to make a success in life." No aspiration could be more laudable and commendable. It is religion put into actual practice—"to inspire them and start them off with faith and courage"—it is inspiration from the counting-house, instead of the pulpit.

The effect and the value of such an enterprise are more than local; they are sectional, and to some degree national in

their scope. The enterprise is local in that its appeal is directed to residents of the bank's territory; it is sectional, as unquestionably inspiring similar institutions and reaching many individuals in a fairly large area; it is national, in that its ripples will spread to an unexpected extent, like the proverbial wavelets on a lake into which a stone is cast.

No organization or corporation can know better than the MANUFACTURERS RECORD the opportunities for good open to such an enterprise and publication. We know this through 42 years of active and practical experience, and our modesty may not be questioned if we say we have some idea of the good achieved by a conscientious, constructive publication devoted to the upbuilding and welfare of every locality, of a great section and of the entire nation.

The MANUFACTURERS RECORD welcomes Rural Community Progress into the field of constructive endeavor, and hopes for all good things for it and its readers and publishers.

THE VALUE OF CHEAP ELECTRIC POWER.

EDMUND T. MOORE, consulting engineer, of Syracuse, N. Y., in a letter to the MANUFACTURERS RECORD states:

"Last April I spent considerable time in Birmingham, Ala., and was especially impressed with the tremendous industrial development now going on. It almost seemed to me that the textile region in Massachusetts was bound, sooner or later, to be extensively affected by the wonderful development in the South in this industry, and I believe one of the greatest factors in this development is the present availability of cheap electric power."

In connection with the subject of cheap electric power and its influence on industries we have a letter from L. J. Bugg of Monroeville, Ala., criticising very strongly the Mobile Register for antagonizing the coming into southern Alabama and southern Mississippi of the Alabama Power Company, with the expensive transmission lines which it proposed to build through western Florida, southern Alabama and southern Mississippi. In his letter Mr. Bugg says:

"In the last issue of your paper you had a good deal to say relative to the development of west Florida, south Alabama and the Mississippi coast. I agree with you as to the future of this section. A good many people are asking what is the matter with Alabama, and the enclosed editorial from the Mobile Register, issue of the 22d, answers that question. This is a fine editorial to come on the heels of the announcement that the Alabama Power Company had purchased the Mobile Electric Company and that the Gulf Electric Company would build transmission lines through west Florida and south Alabama to Mobile. It is my information that they expect to build a 110,000-volt line from some point on the Coosa River to Mobile, the approximate distance 200 miles and the approximate cost \$2,500,000."

We heartily agree with Mr. Bugg that this development by the Alabama Power Company would be of very great value to a longer stretch of seacoast country. It would result in the development of that region far beyond what is now in sight. It would stimulate the local people to carry on a more active campaign for development work of themselves and by themselves, and it would at the same time attract other capital and other men from other sections.

The city or the section which does not have cheap and abundant hydro-electric power in these days of active competition will naturally fall behind as compared with the sections which are abundantly supplied with power. Cheap and abundant electric power is the moving force which drives communities forward. It makes possible the development of industries which could never exist without it. It brings into utilization latent possibilities which are valueless until turned into active constructive work. The farmer and the merchant and the manufacturer are benefited wherever electric power in abundance and at a reasonable price is available.

THE GRAND LODGE OF MASONS OF KENTUCKY TAKES A STAND FOR LAW ENFORCEMENT.

THE Masonic Grand Lodge of Kentucky has taken a stand for obedience to law which should ring true throughout the country. It should be followed by every business or social organization in this land which recognizes that without obedience to law anarchy and chaos will inevitably follow.

It is well that such a resolution as the Masons of Kentucky have adopted should come out of that state, long regarded as one of the hotbeds of the powerful whisky influence of the country. At a recent meeting of the Grand Lodge of Masons of Kentucky the following resolutions were passed:

Resolved. That any man who obtains by purchase or otherwise intoxicating liquors or narcotic drugs from an illegal vendor of the same, or in violation of the laws of the United States, is hereby declared to be ineligible to be received into a Masonic lodge under the jurisdiction of the Grand Lodge of Kentucky, and any Kentucky lodge knowingly electing such a person shall forfeit its charter.

Resolved. That the Grand Lodge of Kentucky hereby declares it to be a Masonic offense for any Mason within its jurisdiction to purchase or possess intoxicating liquor or narcotic drugs, except in accordance with the laws of the United States of America. Any and all Masons offending will be proceeded against by the lodge."

These resolutions are direct and to the point. They are emphatic enough to justify serious consideration on the part of thinking people. Under them any Mason in Kentucky who violates the laws against intoxicating liquors or narcotic drugs by buying them from bootleggers, or purchasing them in any other way except in accordance with the laws of the United States, is ineligible for membership in any Kentucky lodge, and any Kentucky lodge knowingly electing a person who thus violates the law shall forfeit its charter.

The people of the country are more and more coming to realize that obedience to law is the only safety for our nation, and that disobedience to the Prohibition law, or other laws, breaks down regard for all laws, moral and statute. A man may legally oppose any law in which he does not believe, but the moment he violates that law he becomes a criminal, and to the extent of his influence weakens the moral standing of all who come in contact with him.

The Colorado Fuel & Iron Co. and its affiliated organizations recently issued a warning to its employees, over 4000 in number, which could be followed to advantage by every other business concern in the country. The warning, placed in the pay envelope of each employee and also conspicuously placed about the company's plants in Pueblo, Col., reads as follows:

"This company is going to get along in the future without the services of bootleggers or their customers.

"We class as bootleggers all those who manufacture, sell or distribute intoxicants either personally or through agents or members of their own families.

"Such persons will be discharged on evidence satisfactory to the management without waiting for conviction in the courts.

"Employees who are customers of bootleggers or who visit bootleggers' houses or places of business will be suspended for first offense and discharged for continuations of the offense."

It is a well-known fact that the use of intoxicants in any manufacturing employment is dangerous to the lives of all employees. An intoxicated man is never a safe man. An intoxicated mechanic may by some mistake cause the death of himself or his fellow-employees in the handling of machinery.

The intoxicated man driving an automobile should forever be disbarred from handling a car, unless his reformation and his penitence are genuine, and even then it should be tested for several years.

No railroad in the country would dare to permit a locomotive engineer to use intoxicating drinks, and the Brother-

hood of American Locomotive Engineers is on record repeatedly as heartily endorsing the strictest enforcement of the Prohibition law, for every member recognizes that an intoxicated engineer would be a menace to the lives of every passenger. The railroads had to take this stand many years ago. No one has questioned the wisdom of this policy, neither the public nor the engineers themselves, for no objection could exist to the enforcement of this decision.

Why then should not every employer in the country demand that his employees should likewise uphold the law by refraining from the purchase or use of intoxicants? The men in so-called higher social or financial circles who violate the Prohibition law are doing all in their power to destroy the usefulness of their employes, to encourage lawbreaking on the part of their children and ultimately to break down the laws of the country.

AN ENGLISH FINANCIAL AUTHORITY DISCUSSES SOME FINANCIAL MATTERS.

THE Boston Transcript, in an editorial headed "British Fear Federal Reserve," discusses the fear of many English people as to the re-establishment of the gold standard in England. It quotes as follows from W. T. Layton, the editor of the London Economist, one of the world's leading financial papers, whose discussion of the subject recently appeared in the Quarterly Journal of Economics, published by Harvard University:

"It is said that gold is, under existing conditions, at an artificial value determined largely by the policy of the Federal Reserve Board of the United States; that the latter is at the mercy of political influences, and that in tying ourselves to gold we should be adopting a standard which is at the mercy of forces which have no relevance to British or European conditions. Moreover, it is argued that the United States as a creditor country will desire that gold shall have as high a value as possible and is, therefore, likely to favor a steadily falling price level. This tendency is likely to be strengthened by the existence of a pre-war complex among American business men, which leads them to think still of the pre-war price level as 'normal.' In so far as the United States holds such views and is able to put them into effect, it means that if we return to the gold standard we must be prepared for a long period of deflation."

To this the Transcript adds:

"Positive denials of this theoretical case are, of course, impossible. But certainly it seems plain that these timorous Britishers have greatly exaggerated any desire that exists among American business men 'for a steadily falling price level.' In fact, it seems absurd to imagine that they have any such desire at all. The British Treasury and the trustees of the Bank of England, in any event, evidently are confident that it need not be a source of concern to them. As Mr. Layton says, 'If a prediction may be risked, it is that the Federal Reserve Board will try to keep out of politics; will refrain from variations of its discount rates as much as possible in order to escape public and often ill-informed criticism. * * * Further, that it will not act in pursuance of any theory of prices unless it be stabilization of the price level, and that in practice it will be governed much more by its views of the soundness or otherwise of the financial and commercial position than by the price level.'

"With this probability in view, Great Britain has determined that a resumption of the gold standard at least offers positive assurance against the damage done by unstable exchange levels, and it has preferred to gain this assurance rather than to fall victim to hypothetical fears of American fiscal policy, or to embark upon the uncharted vagaries of a controlled currency."

The position taken by the Transcript is, we think, entirely erroneous. The Federal Reserve Board is not materially different in membership—although fortunately it has a different governor—from the period when, in 1919, 1920 and 1921, it did carry on a definite policy for the breaking down of prices, and it did this in full harmony with Secretary Houston of the Treasury Department.

There is a widespread sentiment in some financial circles

that the discount rate of the Federal Reserve Board should be worked up or down according to their desires, and at present the desire seems to be to bring about a lowering of prices. However many good features there may be in the Federal Reserve Act, the power that is granted to the Federal Reserve Board for changing overnight its discount rates without warning to the public gives to the Federal Reserve system the power to control the entire business interests of this country, and that means, to a large extent, the business interests of the world.

If we could always count upon the members of the Federal Reserve Board having the wisdom of Solomon and angelic goodness combined, we might feel safe in trusting ourselves to the limited number of men now in charge of this great organization. Its power for good and its power for evil are almost without limit, but we have not yet found Solomons or angels in charge of its management. Its every movement should be made public by open sessions, which would give to the public the opportunity of knowing exactly what was being done. So long as its meetings are secret, so long will the danger of evil exist.

HOW TO UPBUILD A CITY.

"The growth of our city is dependent largely upon schools, roads and industries. The activities of our Chamber of Commerce are centered upon keeping the school facilities and road improvements just ahead of the growth of the city and caring for the needs of a large number of medium-sized, diversified manufacturing plants."

That statement is found in a letter from O. S. Hawkins, president of the Parkersburg (W. Va.) Board of Commerce. Our readers will note with interest that emphasis is laid upon schools as the first thing, next upon good roads, and then upon industries, and the effort is to keep the school facilities and the road improvements a little ahead of the growth of the city. That is a high standard for every community to follow.

Mr. Hawkins' letter was called forth by his desire to express his appreciation of "The South's Development" and to pay a tribute to some members of the staff—with whom he was formerly intimately acquainted—who have finished their work and gone on to their eternal reward. One point in his letter is of particular interest as showing the stimulating power of the information published in the MANUFACTURERS RECORD. On that subject he writes:

"Perhaps it may not be out of place to tell you how just one issue of your paper has helped us. It was the number giving an account of how the Norfolk-Portsmouth Chamber of Commerce raised a \$1,250,000 Industrial Guarantee Fund. This fired our ambition, and we wrote to W. H. Houston at Norfolk, who had secured the subscribers' signatures. Mr. Houston is a good neighbor. He wrote us a kind letter describing the plan in detail, and sent us copies of the forms used. We adopted that plan, subject to changes applicable to local conditions and our state laws, and appointed an Industrial Guarantee Fund Committee, with Charles S. Smoot as chairman. We have \$600,000 subscribed to this fund and are now ready to do business, but are going to keep on until we have a million-dollar fund. That is a big idea that we got from one issue of your paper. We did not undertake to raise this fund until we had manufacturing experts and railroad industrial agents and engineers come and make a careful survey as to the value of this place for an industrial city. Their reports were so inspiring that the fund has been raised. We are not planning to set the world on fire. We have no gold bricks to sell and do not propose to buy any."

In closing his letter, Mr. Hawkins adds:

"Industrial investigators tell us that we have an exceptionally favorable situation for the manufacturer. The Baltimore & Ohio's Industrial and Engineering Department says that Parkersburg has the most favorable location in the state for building a large industrial city. We have more than 600 business men pledged to aid in making Parkersburg a good city in which to live and do business."

TWENTY THOUSAND DOLLARS IN CASH PRIZES OFFERED FOR SUGGESTION AS TO FLORIDA'S INDUSTRIAL DEVELOPMENT.

LAST week the MANUFACTURERS RECORD editorially pointed to some of the great possibilities of Florida for industrial development, and urged that its state officials and business men should concentrate much attention upon investigating the natural advantages of the state and bring about the active development of manufacturing.

That editorial is now followed by an interesting proposition by the Florida Society of America of Hollywood, which offers \$20,000 in cash prizes for the name of a product best suited for manufacture in Florida. In the announcement President Joseph W. Young of the society states that he has set aside \$20,000 as cash awards for those who will help to find a solution of this problem. Somewhere, he says, there is some one who knows or can find what product is best suited for manufacturing in the state of Florida, and to the man who wins in this contest there will be paid for his idea \$10,000 in cash. Ten thousand dollars more will be distributed to others for good suggestions as to what products should be manufactured in the state.

Here is a unique and novel proposition. It will doubtless awaken widespread interest everywhere, for a \$10,000 cash prize is not offered every day. Here is a great opportunity for industrialists, engineers and chemists to make a study of what Florida is and what it can manufacture to the best advantage. It is an offer of Mr. Young, the owner of the Hollywood Company, to build up Florida for the workingman and so that there may be tasks for thousands of workingmen who would gladly locate in that state but cannot find an opportunity to do so until there is large industrial development.

As announced in the MANUFACTURERS RECORD, the Hollywood Wood Company, with General Goethals as consulting engineer, is planning for the construction of a \$15,000,000 harbor at Hollywood. This new offer is a definite proposition looking to the industrial development of the state. It should stimulate everybody in Florida and elsewhere to the making of a careful study of the potentialities of that state for industrial advancement.

GERMANY'S PROMISE NOT A GUARANTEE.

IN all negotiations and discussions for the rehabilitation of "martyr" Germany, the general disposition, outside of French circles, is to base all plans for German restoration on a foundation of German good faith and honor, integrity and honesty. Germany's "promise" to disarm, to pay its reparations and its other debts, to abide by its treaty pledges seems considered sufficient guarantee for most of the nations which are endeavoring to arrange peace terms with that country.

Have all the nations, except the French, forgotten that Germany lost all sense of national honor and honesty and decency long before it started the great World War? Even so, they recently have been informed of Germany's defiance of its pledged word to disarm and stay disarmed; they know that it is training and arming great armies in preparation for another great war, probably at an early date. They know that Germany is dodging payment of its just debts—they should know that Germany is laughing up its sleeve at the gullibility of its dupes among peace-loving nations.

Only France, from sad experience, realizes this imminent danger and the worthlessness of Germany's pledged word. This may savor of heresy in these days of tender solicitude for the unrepentant outlaw nation, yet, if this be heresy, make the most of it!

SOME BITS OF NEWS OF HUMAN INTEREST FROM PERSONAL LETTERS.

IT often happens that personal letters contain many interesting items of news which otherwise would never get to the public, and here is news of that kind, published by permission.

Col. S. A. Jones of Waynesville, N. C., but a winter resident of Florida, making Rock Harbor his point for the winter, in a letter to the MANUFACTURERS RECORD writes:

"We both have reason to be thankful and grateful to the great Master. When I began scribbling and you began the publication of your paper, this was a great wilderness down here. I had to do with the surveying, separating the swamp, the overflowed and muck lands from the dry lands. The Government gave those to the state and the state has utilized most of them to secure transportation facilities. I had to do with the sale and selection, as you will remember, of the 4,000,000 acres of these swamp lands for a million dollars to Hamilton Disston. Nearly all the suburbs of Miami were sold to Disston 50 years ago or thereabouts for 25 cents an acre. Some of these lands are selling today for as high as \$300 a front foot for lots 200 feet deep. Some change, is it not?

"Land on this island could be bought, including waterfront, from \$50 to \$125 an acre. Mr. Butler, who managed President Coolidge's campaign, has bought four hundred acres above me, spending \$2,000,000 on it selling lots 100 foot front on ocean by 175 foot deep for \$7,000; lots fronting the railroad, middle of the Island, at \$4000. It beats any Arabian Nights story I have ever heard. I am having made a complete map of this island, which is 30 miles long. It is not over a mile wide anywhere, and when cleared off you can see the Gulf or the great Florida Bay on the west and the Atlantic on the east. So it is destined to become one of the greatest winter playgrounds anywhere on the American continent."

In a second letter Colonel Jones gave some additional account of the fishing in his section and a few facts about himself. Every fisherman in the country will long for an opportunity to join Colonel Jones in such a heaven-favored spot for the followers of Izak Walton, while advocates of the Child Labor Amendment will bemoan the fact that Colonel Jones is a living illustration of the blessing which came to him because of the absence of any Child Labor Amendment.

Repeating an invitation to join him in a few days' fishing, Colonel Jones writes:

"I will give you big fish from a 170-foot depth of water, weighing from 8 to 50 pounds each, and as rich in colors as a garden of gorgeous dahlias, every one splendid eating. Then I will bring you in to the trolling grounds and you can hook them on your line at 300 feet—fish weighing from 5 to 150 pounds—and have the thrill of your youth come back to you as you feel their surge on your line, and yet conscious that if your hook is well fastened you will bring them to shore; then you can stop off an hour on the great red conch beds, lift one a minute until you have enough to run you a week. Then you can come in a little further and I will put you on small-fry fish beds, grunts, porgies, snappers, little mutton fish and angel fish to your heart's content; then come on a little further and cross the feeding grounds of the great bone fish, the only feeding grounds of that particular fish on this continent. The nimrod who catches one of them considers that he has reached the aeme of fishing.

"My little bungalow is within 85 feet of the beach that looks out over the entire system without a thing to break the view; and as to the vision no more glorious sunsets and sunrises are to be seen on earth.

"There is a remarkable condition prevailing on the seven to eight mile trip of real ocean without an island between you and the sea, and the breakers stop on the great reef around which the Florida Gulf turns into the Atlantic. Here is an earthly heavenly dream for old men, ladies and children, for they can go out fishing in perfect safety for seven miles with no danger of drowning, for nowhere, except in spots is the water over six feet deep, and for that reason no surf breaks and washes the bottom smooth. Thus it has become a great fish-feeding ground, and it is not over 15 miles long. Every kind of fish comes in here from every country, and there is no noise from breakers except when a gale is

blowing. Every tropical fruit that grows along the equator grows here.

"Since my letter to you Mr. Butler has ordered the building of the first hotel on Key Largo to accommodate his friends until, on his great site, he can build his hotel and clubhouse.

"I beat you a little in starting life early. I began my battle at nine years of age and after that I never saw the inside of a school but for six months. I studied law in the frontier camp with fires made from buffalo chips on the western plains of Texas. I had my experience in the Indian Scout Service while I was doing this, and when I came back to civilization I stood my examination without ever going to a law college or school, and secured license to practice before the Supreme Court of the United States and the Departments in Washington. I made the great battle for the Fort Brook Military Reservation for the city of Tampa, won every step taken, and after that I was called to save my life and health and was robbed of that great and valuable property.

"I have nothing behind me to regret, everything before me is satisfactory, with a reasonable hope that the great Master will know I have not buried the little talent he gave me but have given to the world the best that in me lay."

AN INTERESTING VIEW OF FINANCE, EUROPE AND THE TEN COMMANDMENTS.

A BUSINESS man who has been studying closely the banking interests of this country and our situation as regards Europe, in a letter to the MANUFACTURERS RECORD called forth by the recent letter in this paper from Sir George Paish, writes:

"If an American went to a New York bank and attempted to borrow his capital on current paper, he would be laughed out of the front door. Yet it is considered entirely all right for such loans to be made to Germany. We have probably been getting very close to the situation we occupied in 1919, when there was great apparent prosperity because Europe was really spending money borrowed from us, most of which has never been repaid. It seems to me asinine to assume that there is not plenty of room for investment in this country. Why, we haven't even begun to cultivate our waste places or develop our own natural resources. In comparison with Europe, we are in many respects only meagerly developed. We have wooden houses where they have stone structures, and they have many things in the way of roads, harbor improvements, etc., which, to reproduce in this country, would require billions of investment. It is not a true comparison to say that we are in the same position as England after Napoleonic wars, when she had all the gold. Opportunities for investment then were extremely limited. There were no railroads and there were no steamships.

"Unless everything you have been saying since the 1919-1920 debacle is untrue, it is perfectly obvious to me what is going to happen. We cannot let these vast quantities of gold go abroad without tightening the demand for credit in the United States. The Reserve Board can arbitrarily keep rates down for a time, but just as sure as the sun rises it is only a matter of time before the New York bankers will be demanding higher rates, and what the New York bankers set their minds on getting they get. Moreover, it is obvious that interest rates are going to continue high in Europe, so far as industry is concerned, for a long period to come. These high rates are going sympathetically to influence rates in America beyond question.

"I have been studying this whole question with extreme care ever since last May, when the announcement was first made on the decision to make foreign acceptances eligible in the Reserve system. You published an article on the subject, and if you will turn back and read it you will find that it was an exceptionally true forecast. At last I have been able to reach a *conviction* as to what the new gold policy means to the United States. I may be wrong but I never felt surer of anything.

"Whether it will be a bad thing or not I do not know. In its larger consequences I am afraid it will be. But I thoroughly believe in the gold standard and in sound money. I am also convinced that it has been necessary for us to get rid of the jazz spirit in the United States. I know of few things so constructively significant as the way the juries have recently been convicting the grafters. I note here and there increasing evidences of the return in stability of people's viewpoints. All this wild license and rebellion against restraint of every kind has gradually been sickening the public. They are beginning to realize that there is no safety except in strict

allegiance to those principles of conduct which have long served as standards. And there are many who are again beginning to think that, after all, the Ten Commandments are nakedly true. The thought was very tersely expressed somewhere recently in the saying: 'Men who think they break the law awake to find that the law breaks them.' And that does not mean statute laws, but it does mean the laws which are eternal verities.

"So, far be it from me to criticise anything that makes for a return to stability in morals and in methods of living. We can afford to pay a mighty big price to achieve that accomplishment."

"INDISPENSABLE TO MEN WHO WOULD BE WELL INFORMED."

PRESIDENT D. C. HULL of the Mississippi Agricultural and Mechanical College, in renewing his subscription to the MANUFACTURERS RECORD, writes:

"This publication is, indeed, indispensable to any individual who expects to keep himself well informed with reference to material and other lines of Southern progress.

"I especially wish to express my hearty approval of the special edition of the MANUFACTURERS RECORD under the title 'The South's Development.' I was prepared to expect much of this volume, but must confess that I was surprised at the completeness and thoroughness of the treatment. Its value to the future center of American commerce and manufactures is simply incalculable."

There are many thousands of people in the South who think they are well informed with reference to the material and other lines of Southern progress who are not yet regular subscribers to the MANUFACTURERS RECORD. Professor Hull thinks that no man can be fully informed without reading the MANUFACTURERS RECORD. It is as valuable to the preacher as to the teacher, to the lawyer as to the manufacturer, to the official in public life as to the banker, and it is as important to the banker as it is to any other business man.

The MANUFACTURERS RECORD is just a little different from any other publication in the land. Its name would convey the impression that it was devoted mainly to manufacturing, but that is incorrect. When it was established, the name was selected 43 years ago. It is too late now to change it, but the MANUFACTURERS RECORD is more than a purely industrial paper. It is a broad general business paper, treating all economic questions which are of vital importance to the people of the country, discussing political problems that bear on our future, covering the growth of the South in education and in religious activities as expressed in the building of churches, touching on moral and ethical questions, and dealing, indeed, with everything that bears on the educational and moral upbuilding of the South and of the relation of this section to the progress and welfare of the entire country.

Primarily devoted to the South, and covering that section from end to end, it is of equal interest to the people of the whole country, for the South is an essential part of this nation, whether viewed from the material or the political standpoint. The South is becoming the great market of America for hundreds of millions of dollars' worth of machinery and equipment of all kinds. Today it is universally recognized as destined to show the largest degree of prosperity and progress of any section of the country.

The business man, whatever may be the character of his business, the manufacturer, the merchant, the professional man, whether he be the doctor, lawyer or preacher, will find in the MANUFACTURERS RECORD information which he is unable to get anywhere else. On this ground we invite the many thousands who are not now subscribers to this paper to follow the example of President Hull and recognize that the MANUFACTURERS RECORD is, "indeed, indispensable to any individual who expects to keep himself well informed with reference to material and other lines of Southern progress."

THE MOUNTAIN SCHOOLS OF THE SOUTH MAINTAINED BY RELIGIOUS ORGANIZATIONS.

A NUMBER of leading religious denominations are carrying on splendid educational work among the mountain people of the South, people of almost limitless inherent capacities, only needing education to fit them for any walk in life. Among these activities, the Baptist Home Mission Board of Atlanta has for years been doing splendid work in this respect. Dr. J. W. O'Hara of Asheville, N. C., superintendent of these mountain mission schools of the Baptist Board, sends us some interesting facts as to what this denomination has been doing.

This Home Mission Board has established 47 mountain schools during the last quarter of a century. At present there are 30 of these schools in nine of the Southern states. The population of the territory of the mountain schools is about 5,500,000, so Dr. O'Hara writes.

According to the annual report for 1924, these schools had 216 teachers and 4920 students, of whom 231 were studying for the ministry and 486 graduated last year. A few years ago a compilation was made of the work of students who had graduated from these schools. At that time there were 350 preachers, 200 lawyers, 225 doctors, 30 trained nurses, 30 missionaries, 2500 school teachers, 3000 farmers, 900 merchants, 40 bankers and 18 state legislators. This record has since then been greatly increased. At that time from 25 per cent to 75 per cent of the public school teachers in the prohibition and other laws more righteously enforced, crime section adjacent to these schools had been students of these mission schools.

"Evil has been suppressed, morals improved, homes elevated, social conditions transformed, higher ideals inculcated, diminished, citizenship uplifted, missionaries and volunteers secured and churches strengthened," the report says.

These are only brief extracts from Dr. O'Hara's report. In view of the missionary character of these schools and the splendid work they are doing and the limited income which they have, in reply to an inquiry from Dr. O'Hara, the MANUFACTURERS RECORD recently offered to furnish these schools with this paper at the rate which is given to ministers of the Gospel, or \$3.25 per annum, one-half the regular subscription price and, of course, scarcely one-third of the actual cost of the publication. Dr. O'Hara writes:

"Your kind offer to give the MANUFACTURERS RECORD to our schools for \$3.25 per annum is resulting in practically all of my schools subscribing for the magazine. They are very appreciative of this exceedingly low subscription price."

To this, Dr. O'Hara adds:

"I have read your wonderful book, 'The South's Development,' with great delight and profit. It portrays assets and resources of the South in a wonderful way. Unquestionably, it will stimulate every phase of industrial life, and at the same time enlist the co-operation of the people of the South in the development of the unbounded resources of this wonderful section. No one can read it without having a special sense of pride in having a part in the activities of the South. You have rendered a service of incalculable value, and have brought the people of the South under obligation to you."

To the other denominational schools of the South and denominational missionary schools in the mountain regions of this section we will be glad to make the same offer of \$3.25 a year. We would at the same time invite from the superintendents of the schools maintained by the Presbyterians, the Methodists and other denominations facts as to what their schools have accomplished, how many schools and how many students they have, and the result of their work.

Maryland and Baltimore Enthusiastic for Exposition.

Both officially, through the state and municipal governments, and unofficially, through commercial, industrial, financial and other organizations, Maryland and Baltimore have just announced that they will be leading exhibitors in the Southern Exposition to be held at the Grand Central Palace, New York, May 11 to 23. "Opportunity is knocking at the door of the South, and Baltimore proposes to be among the first to grasp it by the hand and make it welcome," said Mayor Howard W. Jackson.

As a starter, the city has appropriated \$6000 toward the exhibit, and steps have been taken by the Association of Commerce both to raise funds and to enlist exhibits for the Exposition. Joseph W. Shirley, City Topographical Engineer and chairman of the Mayor's exhibition committee, and A. S. Goldsborough, executive secretary of the Association of Commerce and chairman of its exhibition committee, will co-operate and collaborate in raising funds and in getting exhibits to show the products and advantages of Baltimore and all Maryland.

In a telegram to Mr. Goldsborough the editor of the MANUFACTURERS RECORD, wiring from his winter office at Daytona, Fla., said:

"My office wires that Mayor Jackson has definitely authorized expenditure of \$6000 for city's participation in Southern Exposition and that arrangements will be pushed immediately for securing adequate exhibits for Maryland. Accept for yourself and the city my hearty congratulations upon this wise move on the part of Baltimore.

"The Southern Exposition offers an exceptional opportunity for pushing every state in the South, and the agricultural and mineral and industrial resources of this section, into the very heart of the world's financial centers. I believe the Exposition will be of incalculable value to the South, and with Baltimore's intimate identification with this entire section, with Baltimore's investment of not less than \$500,000,000 in Southern railroads and other Southern investments, the business interests of Baltimore and of the whole state can render an invaluable service to the city, to the state and to the South by making an exhibit worthy of the opportunity and of its resources.

"I trust that the manufacturers of Baltimore will utilize this opportunity to the fullest extent possible. The Tennessee Coal, Iron & Railroad Co. of Birmingham, one of the big subsidiaries of the Steel Corporation; the Alabama Power Company and the Georgia Railway & Power Co., two of the greatest hydro-electric companies in the country, will all make big exhibits. This suggests that similar companies and other big corporations in Maryland could to advantage follow their example."

To this message Mr. Goldsborough wired the following reply:

"We are glad to have further assurances from you as to the scope, importance and ultimate success of the Southern Exposition. Baltimore business men have great faith in your judgment and your telegram will be an efficient help in enlisting their co-operation.

"We agree with you that Baltimore's natural position in this Exposition is one of leadership in harmony with its logical status."

Mayor Jackson has sent the following letter to leading citizens in every line of activity:

"Following my original public statement that Baltimore cannot afford to stay out of the Southern Exposition, to be held in New York May 11-23, I am writing this to assure you that, after a careful investigation of the whole proposition, we have finally determined to enter. The municipal government will set up an exhibit which will be a definite credit to the city. As mayor, I feel that we can ill afford, as the leading city of the South, to do otherwise.

"But that is not all. Baltimore is the South's premier business city. As a consequence, the business exhibit should be commensurate with that ranking. Inasmuch as the Exposition will offer the right to do business as well as the opportunity to present attractively the greatness of the Baltimore market, I hope that you will become a participant.

"We must, beyond question, make a big impression upon

the South itself—our principal buying territory—and also upon the thousands of others from North and West who will visit the Grand Central Palace. If we are the premier city, we must make a premier showing. It will unquestionably pay you to be a part of that showing. The Baltimore Association of Commerce is handling this 'business exhibit.'

Although Baltimore and all Maryland have been allotted 7000 square feet of space, it is felt that this will not be sufficient to meet their needs, especially as the great railroads serving the city, some of which have their main offices in Baltimore, also propose to be adequately represented in the Exposition. Moreover, various state departments, with funds available for the purpose, will enter exhibits to show the diversity of the natural products as well as the manufactured commodities. All the counties and towns and cities of the state will be invited to participate, and a number have so signified their intention in advance of the invitation. It is believed by those actively in charge of the movement that the space allotted will be taken by the end of this week. Plans contemplate first meeting the demands of corporations and large concerns and then taking care of lesser individual enterprises, and a real "run" for space developed from almost the opening of the space offerings.

Among the first state departments to get in line were the State Roads Commission, which has taken two booths, and the Conservation Commission, which has taken one, and Forestry and other departments are reported ready to detail their needs and requests.

As planned by Major Shirley, a great gateway will be erected at one of the entrances to the Grand Central Palace carrying the legend, "Baltimore, Gateway to the South." From this will radiate panels informing visitors and the world at large that Baltimore ranks second in tonnage to the West coast and third in all exports and imports, with much other information of the same or kindred nature. Surmounting the gateway will be state and city flags, while smaller crests on the panels will bear the names of the Southern states, with their respective flags intertwined.

Hosts and guides representing the state and the city will be on duty at all hours during the Exposition, and will show visitors the features of interest and will answer any questions.

The Southern Maryland Society and other state and city organizations will be in charge of the social activities.

The decision of the city and the state to participate in the Exposition has been enthusiastically endorsed by leading citizens in every line, while also leaders in religion and education hope to see the great work of those groups adequately represented.

[Editorial in the Baltimore News.]

Baltimore's Part in the Southern Exposition— Make It Big and Comprehensive.

In a letter to the Baltimore News Mayor Howard W. Jackson says Baltimore has definitely decided to go into the Southern Exposition, which is to be held in New York from May 11 to May 23. After a careful investigation the Mayor has found the enterprise worthy and has wisely decided that the municipal government will set up an exhibit that will be a credit. As the leading city of the South, he says, Baltimore cannot afford to do otherwise. The Mayor goes on to say, and we commend his words to all Baltimoreans:

"Baltimore is the South's premier city. Therefore, the business exhibit should be commensurate with that ranking. We must, beyond question, make a big impression upon the South itself—our principal buying territory—and also upon the thousands of others from the North and West who will

visit the Grand Central Palace. If we are the premier city, we must make the premier showing."

Baltimore business men should respond at once to the Mayor's appeal. Here is a real opportunity that must not be neglected. Baltimore cannot afford to let Philadelphia, New York or Boston have a better exhibit in a Southern exhibition.

Read the figures just received from the Department of Commerce. In 1923 Baltimore's manufactured products had a value of \$654,766,001, an increase of 39.5 per cent over 1921, a greater increase than the average for the United States. Baltimore is progressing wonderfully.

Mark this—the Exposition will offer the right to do business as well as the opportunity to present the greatness of the Baltimore market. And the fostering of a right participation in the Exposition will be under the active direction of the Baltimore Association of Commerce, which is in itself the largest business organization in the South.

In taking part in this Exposition Baltimore is between two

great compulsions. It must go in because it will never do for a Southern Exposition in a Northern city to be without the leading representation of the Southern city that is first in Southern trade. That participation is both for Baltimore's credit in the North and its prestige in the South.

We speak strongly on this matter because the time is short and the need of action is imperative. Baltimore city will have an exhibit. Some of the departments of the state will have exhibits, and thus the official sanction and favor of both city and state will be secured.

But what is especially necessary is that every group of trade and industry in Baltimore should have one or more exhibits, so that there will be presented an attractive and comprehensive picture of the trade and resources of the city which boasts that it is the metropolis of the South.

This duty confronts the business men of Baltimore and they must meet it in a big way. Let the marvelous and expanding South speak through its largest city—Baltimore.

Plans for Southern Exposition Moving Forward.

Georgia to Present Diversified Exhibit.

First making sure to get off on the right foot, Georgia has started a vigorous movement to assure a state exhibit at the Southern Exposition fully up to the standard of its position as a great productive, agricultural and industrial Commonwealth. Plans to raise \$20,000 for this purpose already are said to be bearing fruit, while also various counties and cities and towns are getting into shape exhibits which will show their advantages and attractions.

"Failure to occupy the space allotted to Georgia would bring discredit upon our state and would create an erroneous impression as to its resources and progress," said Governor Clifford Walker, and in this realization Georgia and its political subdivisions are working to "do themselves proud."

Working in close co-operation, the Atlanta Junior Chamber of Commerce and a special commission named by the Governor will present the need for money to the people of the entire state before April 1, thus giving sufficient time to put it to the best use possible for displaying the products, progress and prosperity of the Commonwealth. The campaign is under the direction of Frank A. Hooper, Jr., member of the General Assembly from Fulton county, with Frank H. McDonald as executive secretary and Frank W. Harrison as treasurer.

In effect, Georgia proposes to present to the people of the entire country a diversified exhibit which will appeal to every business element and will attract new people to settle in the state, or new capital to seek investment in Georgia enterprises already established or new. Leaders in the lines of agriculture, ceramics, mining, industry, forestry and so on will unite their knowledge and ideas in the preparation of the exhibits, and trained men will lecture on the advantages of Georgia as a business and a residential state. Thousands of persons, it is estimated, would be attracted to Georgia from other sections of the country if informed of its manifold advantages and the opportunities which it offers, and all these the people of Georgia expect to present in most engaging fashion.

"It would be a horrible calamity for Georgia's space to be unoccupied," said Chairman Hooper. "The thousands of persons who will pass through the great exposition hall, wondering at the wealth, resources and abundance of enterprise displayed by other Southern states, must not see the space marked 'Georgia' left open and empty—a libel on the leader of them all," he concludes with fine pride in his state.

The commission appointed by Governor Walker from the state at large to head community campaigns for the fund is

composed of John D. Paulk of Adel, Paul Brown of Albany, Frank Harrold, Sr., of Americus, Joe Lawrence of Ashburn, Frank Holden of Athens, Spencer Hart of Augusta, John Callahan, Jr., of Bainbridge, Joe Hand of Brunswick, J. M. Chastain of Cairo, Paul Aiken of Cartersville, W. W. Mundy of Cedartown, George Woodruff of Columbus, Gladstone Fleming of Cordele, Dr. L. G. Hardeman of Commerce, R. E. Marlin of Dalton, Judge M. C. Yeomans of Dawson, Dennard Hughes of Danville, Guy Parker of East Point, Herman Miller of Eastman, Hiram Gardner of Eatonton, John Dennis of Elberton, Judge W. B. Hollingsworth of Fayetteville, Isidor Gelders of Fitzgerald, Edwin T. Murray of Fort Valley, Ed Dunlop of Gainesville, C. C. Thomas of Griffin, George Carswell of Irwinton, Fuller Callaway of La Grange, Dr. S. B. Yow of Lavonia, W. E. Dunwody of Macon, John C. Walker of Marshallville, Mrs. Regina Rambo Benson of Marietta, J. L. Benton of Monticello, W. J. Vereen of Moultrie, Sidney L. Camp of Newnan, James P. Jones of Rome, Mrs. Mary Jarrett of Tugalo, Dr. Jeff Davis of Toccoa, W. W. Alexander of Thomasville, Carl N. Guess of Stone Mountain, C. C. Cambridge of Savannah, Sam Tate of Tate, Dr. George A. Paulk of Tifton, Jule Felton of Montezuma, Miller Bell of Milledgeville, John Slater of Valdosta, R. B. Russell, Jr., of Winder, Calvin Parker of Waycross, Phil Lanier of West Point, Carroll Waller of Washington.

An executive committee from the membership of the Junior Chamber of Commerce will bear the brunt of the campaign work. It includes John M. Slaton, Jr., Cliff Wheatley, John Dillard, Robert H. Hamilton, Frank Maloney, George E. Meyers, Fitzhugh Knox, Jr., E. Smythe Gambrell, Ray Harwell, Forrest Wyson, Howard Haire, John Armour and D. Leon Williams, secretary.

[From the Atlanta Constitution.]

Meet This Crisis.

Governor Walker has named a strong Georgia commission for the Southern Exposition to be held in New York in May. The Atlanta Junior Chamber of Commerce, which has undertaken to raise \$20,000 to prepare and display a full and comprehensive state exhibit on that occasion, named its committees Saturday, and the campaign will open today in full blast.

The Junior Chamber was drafted into this service, and agreed after strong appeals from the Governor, Mayor Sims, Editor Edmonds of the MANUFACTURERS RECORD and others. That it will succeed is assured. It is an unselfish, state-wide

service and one that the Junior Chamber can and will perform with its usual enthusiasm and resourcefulness.

Georgia cannot afford not to be creditably represented in that Exposition. Every other Southern state without an exception will have large and expensive displays, most of them costing a great deal more than the Georgia budget. But, with the co-operation of the State College of Agriculture and state officials already assured, Georgia's agricultural, mineral and other natural resources, including photographic exhibits, soil surveys, etc., will be equal to that of any of her sister states. The industrial exhibits are now being built by many of the state's largest interests.

Let every Georgia citizen do his and her part in this crisis. Georgia needs to be there.

[From the Augusta (Ga.) Chronicle.]

Sell Augusta, Georgia and the South to World at Southern Exposition in Grand Central Palace, New York.

The city of Augusta, the state of Georgia and the entire South should push forward rapidly plans for the great Southern Exposition to be held in New York city at the Grand Central Palace in May. This will be a rare opportunity for the South to tell its marvelous message to millions of people who will stream through the great exhibit halls, and we would especially urge that the state of Georgia and the city of Augusta be well represented.

Almost all of the state legislatures in the South have appropriated money for exhibits, and a bill appropriating money for Georgia was introduced in the last legislature. It passed the Senate and was favorably reported in the House by committee, but adjournment was taken before it was voted upon. An effort is being made to raise \$20,000 throughout the state of Georgia to put on a state exhibit showing the resources of Georgia as a whole. There is every moral assurance that this money will be repaid by the legislature, but, of course, no guarantee. The plan is to raise this \$20,000 for a general state exhibit and for each community that desires to take space.

The Chronicle urges that Augusta and this section of the state see to it that our wonderful resources are shown to the best advantage. Now of all times should we exploit the fact that we have power, transportation facilities, climate, good labor conditions and every other advantage. We should exhibit our diversified farm products, our diversified manufactured products, our clays and everything that we make in Augusta and this section. It will be the psychological time to turn the eyes of the Northern manufacturers in our direction. We should co-operate with the state and secure an individual exhibit which will be worth many times its cost from an advertising standpoint. Here is the opportunity to sell Augusta to the world. We have every advantage and we should capitalize on it.

The Board of Commerce of Augusta is hard at work on the proposition and every manufacturer, every public-utility company should co-operate just as the Georgia & Florida Railway and the Augusta-Aiken Railway & Electric Corporation are planning to do.

[From the Atlanta Journal.]

Georgia Must Be There!

Georgians all should be gratified at the progress of plans to have their state worthily represented at the Southern Exposition, which is to be held May 11-23 in New York city. In that great portrayal of resources and attractions Dixie's "Empire" Commonwealth should justify its title. In so doing, however, it must meet keen and brilliant rivalry, for

its neighbors are preparing to present their best—and that will be marvelously good.

They are alert to the rare opportunities which the Exposition will afford for interesting homesekers and investors from all parts of America. New York city is thronged daily with hundreds of thousands of visitors, and in May they will be especially numerous. Multitudes of these will be drawn to the Grand Central Palace, where the Southern Exposition is to be staged and where it will be viewed by more people in a day than elsewhere it could assemble in a month. It is not merely the crowds, however, that will make the event important. Its promoters are advertising it judiciously, far and wide, so that it will attract the most substantial, and in every way the most desirable, sort of Americans who are casting about in their minds for investment opportunities, whether in farm lands, manufacturing sites, commercial centers or delightful home havens.

Georgia is peculiarly rich in things that appeal to all such seekers—in fertile soil, in the raw materials of industry, in transport facilities and easy access to the great markets, in climate as healthful as it is bland, and in Anglo-Saxon neighborliness as kind as it is loyal and true. Shall the opportunity of bringing such advantages vividly to the notice of legions of good Americans who are looking Southward be wasted?

Not if the enterprising leadership now astir in behalf of a Georgia exhibit at the Exposition is duly supported. The Atlanta Junior Chamber of Commerce, known for its liberal spirit and workmanly patriotism, is heading the movement to raise \$20,000 for the purpose. At a meeting yesterday pledges of hearty support were given by Governor Walker, Mayor Sims and other leaders in the community and the Commonwealth. Let all towns and all citizens who stand for a progressive and a growing Georgia muster promptly to the furtherance of this good cause.

[From the Birmingham Age-Herald.]

Exposition as Viewed in Birmingham.

In the organized purpose to advertise Alabama to the rest of the country and to the world, no more convincing or graphic medium can be found than the Southern Exposition. This exhibit of the resources, advantages and opportunities of the Southern states will be in progress in Grand Central Palace, New York city, for two weeks, beginning May 11. Although New York sits on the edge of the continent, in many respects it is the most central city we have. This is especially true as regards money, capital for investment. It is not only itself a most populous city, but it has other populous cities within easy reach, and it lies at one of the world's most tremendous nodes of converging lines of land and ocean travel. Perhaps this Exposition could be held nowhere else so likely to give it the patronage of huge throngs and to bring it so intimately to the notice of potential investors.

No Southern state can afford to be missing from that array of exhibits. Absence would be conspicuous evidence of nothing to show or else indicate a lack of that progressiveness which invites enterprise and investment. No state can afford to make a poor display. For that also would be merely to make the other states show to more advantage by contrast. The occasion is almost an imperative summons upon every Southern state to put its best foot foremost, and to display its assets in most complete and telling manner.

Roger Babson recently said that Alabama is richest of the states in natural resources. He knows that, as do other statisticians, B. C. Forbes, for example, who added that the people of this state are singularly slow in realizing the magnitude of their industrial destiny. But the rest of the world does not know it. Alabama has something of a revealing and

a compelling nature to exhibit to the country. She needs fear no competition if her bid for fuller recognition is persistently and intelligently made. That show window in New York can be made to tell a graphic and convincing story to all the world.

Of the value of advertising a state there can be no question. Publicity of the valid sort does not escape the inquiring or discerning eye. There are many men of means alertly on the lookout for just such openings as Alabama has to offer. These men or their agents will not fail to visit the Southern Exposition and to take due note of the stories unfolded there. Alabama leaders of progress, of industry, of thought and of opinion have long counseled an organized, intelligent and forcible advertising of this state in order to attract investors and captains of industry. The program has marked time. It needs something to start it moving. What better word of Forward March can there be than this Exposition in May?

The time is growing short. Many have prepared to be represented in Alabama's section. There is room for more. A united, state-wide effort means a showing of which this state will not be ashamed. It means millions of new capital brought into the state, an enhancement of our values, an increase in our prosperity and a substantial impetus towards that commercial and industrial empire which is ours for the effort. We cannot give this opportunity our sane consideration and refuse to grasp it.

[From the Asheville Citizen.]

An Expert's Opinion.

Richard H. Edmonds, editor of the MANUFACTURERS RECORD, is famous as the man who has led all others in doing constructive work for the South. In a letter to the editor of The Citizen he says:

"I sincerely hope that western North Carolina, and, indeed, all of North Carolina, will be adequately represented at the Southern Exposition in New York city. For many years I have had special interest in western Carolina. Every time I have had the pleasure of visiting Asheville or other parts of western Carolina I have been more and more impressed with the beauty of the scenery and the charms of its climate.

"I often discussed this section with D. A. Tompkins of Charlotte, who, to my mind, was one of the greatest creative geniuses in upbuilding work which the South has ever had. He was a statesman in industrial development and in newspaper work so long as he lived. He did not seem to know how to grow tired. He traveled by night and worked by day; indeed, except for sleeping hours, he was working whenever he was on a train as hard as when he was in his office.

"He had a theory about western Carolina which he often mentioned to me. It was to the effect that the climate and other conditions would make that section one of the greatest industrial regions of America. In that mountain region, said he, there would be developed the highest grade of textile work, matching that of the Swiss mountain people in producing Swiss goods. There would also come, he said, a development of high-class industrial interests which would require the highest technical skill. He looked forward to the time when throughout that mountain region would be established great electric manufacturing companies of high-grade machinery work, all of which would bring about the development of the very finest technical skill to be found in this or any other country. I agreed with him then and I still agree with the view which he expressed at that time.

"I trust that all of western Carolina will make an adequate exhibit at the Southern Exposition, for I believe it is now on a basis which will insure success and bring about a very large attendance. It will also give to the Eastern papers the opportunity of giving the South more favorable publicity than this section has ever had from the daily and technical papers of the East."

This is a timely and valuable reminder from the man who for fifty years has preached to the nation the possibilities and glorious future of the South. He knows how tremendous are the dividends that come to the South from "favorable publicity" in the newspapers of the other sections of the United States.

A TOPOGRAPHIC SURVEY OF THE UNITED STATES.

Work of Nation-Wide Importance to Be Pushed.

Uncle Sam's biggest map, its 6000 sheets covering more than an acre, will be rushed to completion after 45 years of intermittent effort, according to Ex-Governor James Hartness of Vermont, president of the American Engineering Council.

Signing of the Temple bill by President Coolidge, Mr. Hartness said, is of enormous social and industrial significance to the nation, as it clears the way for an exhaustive topographic survey of the United States by engineers within 20 years. At the past rate of progress, Mr. Hartness declared, the task would have required fully a century.

"Engineers throughout the country have actively supported this measure, over the enactment of which they are deeply gratified," said Mr. Hartness. "The United States in less than a generation will have a complete atlas of its territory.

"The United States Geological Survey has been continuously at work on this job for nearly half a century with small annual appropriations from Congress, with the result that only about a third of the area of the country has been adequately mapped.

"The map will cost about \$50,000,000. The reason for this is that a good topographic map is the result of an exact physical survey of every square mile, indeed every acre, of the area to be mapped.

"And for each of these acres it must show not only every road and railroad, every bridge, every house, and every other work of man exactly where they belong, but it must show as well every natural feature—every river, creek and lake, every mountain, hill and slope, each in its exact relation to everything else.

"It must show not only the location of the hills and the mountains, but their heights above sea level to the nearest foot. In other words, when any particular square mile of the United States is thus transferred to paper you see on the map in miniature every feature that you see on the square mile itself, and from the map you can determine the altitude of every point in that square mile.

"These topographic maps, as surveyed and published by the United States Geological Survey, form the mother map of the country, and have a hundred uses. They obviate the need for preliminary surveys for engineering work of all classes, from the simplest individual farm-drainage project to the building of a great railroad.

"They show the highway engineer or the drainage engineer or the water-power engineer or any other kind of an engineer an exact physical picture of the country. With the map spread out before him, he can lay out his project with confidence, instead of having to organize and carry out a field survey costing perhaps thousands of dollars.

"The Temple bill greatly accelerates the present rate of topographic mapping by the Geological Survey, and the precise triangulation and leveling of the United States Coast and Geodetic Survey, the organizations which are doing this work."

Plans Hotels in Florida to Cost \$4,000,000.

Dania, Fla.—As one of a number of hotels to be erected in Florida at a total cost of \$4,000,000, the Empire Finance Construction Co., Inc., of Dania plans to build a three-story structure here, work on the building to start about May 1 and to be completed for the next winter season. John M. Peterman of Fort Lauderdale, Fla., is the architect. In addition to the Dania hotel, the company announces that it will build hotels at Cocoa, West Palm Beach, Titusville, Winter Park, Daytona and Fort Lauderdale.

\$600,000 Lamar Life Building at Jackson.

Erected at a cost of approximately \$600,000, the new building at Jackson, Miss., of the Lamar Life Insurance Co. of that city has been formally opened. The building is ten stories and basement, 80 by 120 feet, of tile and concrete construction, with cement floors, Barrett roofing and surmounted by a clock tower. Plans and specifications for the



NEW LIFE INSURANCE BUILDING AT JACKSON, MISS.

structure were prepared by Sanguinet, Staats & Hedrick of Fort Worth, Texas, and N. W. Overstreet of Jackson as associate architects, and general contract executed by the Sumner-Sollitt Co. of San Antonio. Excavation was made by the Lawrence Construction Co. of Jackson, and foundation constructed by the Raymond Concrete Pile Co. of New York and Atlanta; heating equipment was installed by the Beach Plumbing & Heating Co. of Fort Worth, and elevators by the Otis Elevator Co. of New York. The Northwestern Terra Cotta Co. of Chicago supplied terra cotta for the new structure.

Nine-Foot Intracoastal Canal Assured.

New Orleans, La.—By the adoption of the annual Rivers and Harbors bill recently approved by Congress, a nine-foot Intracoastal canal from New Orleans and Plaquemine, La., to Corpus Christi, Texas, has been assured. According to the terms of the Federal measure, a total of \$42,116,134 has been authorized for waterways, including \$9,000,000 for the intracoastal canal, actual appropriation for the work to be made at the next session of Congress.

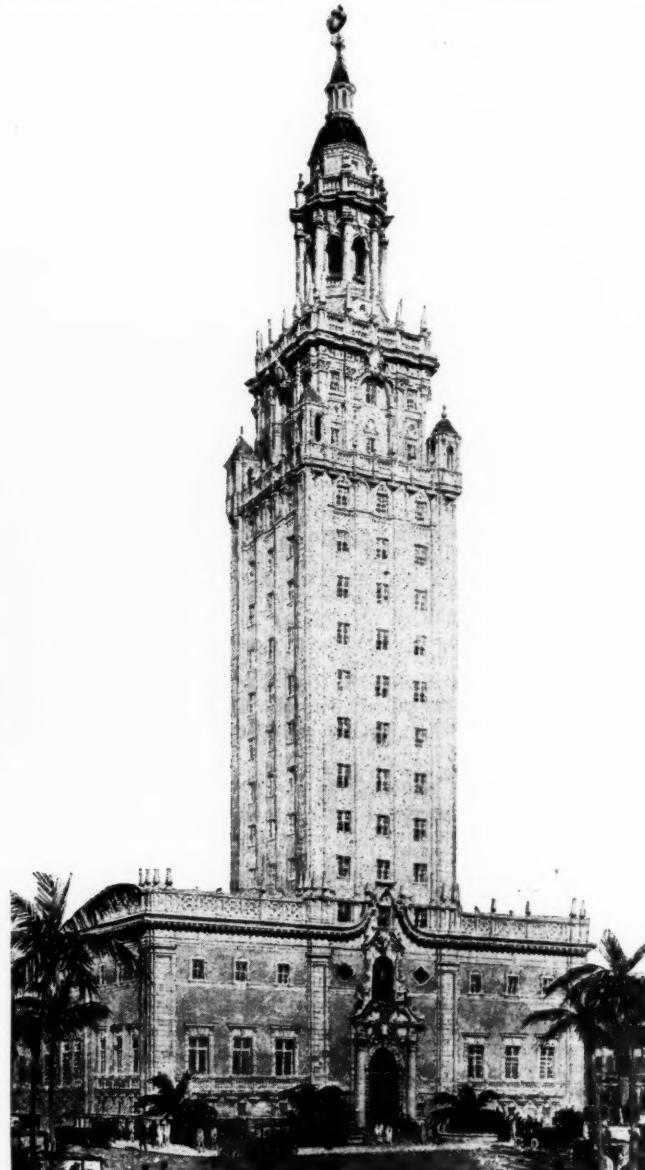
The canal will be 600 miles long with a bottom width of

100 feet. There is already a five-foot canal from New Orleans to the Texas border and from Galveston to Corpus Christi.

\$1,000,000 Building for Miami News.

The accompanying illustration shows the News Tower Building at Miami, Fla., now being erected at a cost of \$1,000,000 by the Miami Daily News, of which former Governor James M. Cox of Dayton, Ohio, is president, and R. A. Reeder, Miami, vice-president and general manager.

The lower portion of the structure is of concrete, 187 by 120 feet, extending to a height of 15 stories in the tower, which is of steel construction. It has concrete foundations and floors, built-up roof, metal doors and ceilings, and is equipped with



15-STORY NEWS TOWER BUILDING AT MIAMI.

mail chutes, wire glass and steel sash and trim. Schultze & Weaver of New York are the architects; the general contract was executed by the Miami organization of George A. Fuller Co. of New York. Other contracts were awarded as follows: Electrical work, Howard P. Foley Co., Washington, D. C.; plumbing, Riggs-Distler Co., Baltimore; marble and tile, Miami Tile Co., Miami, and stone and stucco, John B. Orr, Miami. Practically all remaining work is being done by the general contractors.

The Dairy Industry, Oleomargarine and Cotton-seed Products as Seen in the West.

In reply to an inquiry of the Manufacturers Record as to the recently suggested legislation of Western states against cottonseed products, Mr. Craddock Goins, an editor of several dairying and kindred papers in Milwaukee, writes the following extremely interesting letter on the subject. Mr. Goins is a native of Georgia, deeply interested in the welfare of the South. He is, therefore, able to discuss this subject from the standpoint of a man of Southern birth and devotion to the South, and at the same time from the standpoint of an editor who for a long period has been in intimate touch with all the ramifications of the dairy industry in the Northwest. For years he has been an enthusiastic advocate, through the Manufacturers Record and other papers, of the upbuilding of the South's dairy industry. Mr. Goins' letter is an interesting presentation of a very important subject. It follows:

The Olsen Publishing Company.

Publishers of
Butter, Cheese and Egg Journal
The Ice Cream Review
The Milk Dealer

Milwaukee, Wis., March 8.

Editor Manufacturers Record:

As a class the South knows extremely little of the ramifications of the dairy industry, particularly of its importance to general welfare. Dairying is a double-edged instrument for good in human affairs, for in every respect it stands as an exponent of health and wealth—health to the people who consume pure, wholesome, nutritious dairy products instead of substitutes, and wealth to the community, state or section where dairy production is encouraged.

We have been led to believe in the South that the dairy interests are discriminating against cottonseed oil. That is wholly untrue. The fight is against butter substitutes, variously known as oleomargarine, butterine, nutola, etc. You will be astonished to know how very little cottonseed oil (thank goodness!) goes into butter substitutes.

The constitutionality of the proposed national legislation is a matter which the writer does not care to dwell upon, though I have no hesitancy in saying that on general principles I favor allowing matters of this kind being left to the states.

You will see how unwise it is for Southern interests to champion the cause of the butter-substitute people when it is pointed out that the dairy industry profits the South immeasurably more in dollars and cents than ever could the oleomargarine industry, to say nothing of the health side of the matter.

As experts make progress in getting dairymen to use more concentrates in dairy feed, the South is rapidly increasing its sale of cottonseed cake and meal to the dairy industry. It is interesting to note what this means in dollars and cents. For the fiscal year 1921-22 the oleomargarine industry manufactured 190,950,000 pounds of their product, using 15,420,000 pounds of cottonseed oil. For 1922-23 oleomargarine production increased about 19,000,000 pounds, and the use of cottonseed oil in the product increased a little more than 3,000,000 pounds. The last fiscal year ending July 1, 1924, showed an oleomargarine production of 239,698,000 pounds, and the amount of cottonseed oil used was on 20,640,000 pounds.

The oleomargarine industry paid \$2,640,000 for the cottonseed oil used the year ending July 1, 1924.

As for the cottonseed cake and meal, the dairy industry bought from the South 452,000 tons in 1921-22, which was increased only 20,000 tons the following fiscal year. But for the past fiscal year the dairy industry bought 750,000 tons of cottonseed cake and meal, an increase of 300,000 tons over the fiscal year of 1921-22.

And for the 750,000 tons of cottonseed cake and meal, the dairy industry paid \$35,000,000! This is more than sixteen times as much as the oleomargarine industry paid the South for cottonseed oil!

Does the oleomargarine industry seem to be a better friend of the South than the dairy industry?

You would be appalled to know how the oleomargarine

people have used the South as a cat's paw to snatch their chestnuts from fire. The oleomargarine industry has been a parasite upon the dairy industry for years. It has endeavored to lead people into buying oleomargarine instead of butter. It is not necessary to mention here the great fight the dairy industry has had to wage against the practice of the oleomargarine people to use coloring to make its product resemble butter.

Instead of being a friend of the cottonseed oil industry of the South, the oleomargarine industry is doing its best to eliminate cottonseed oil and use some other product in its place. First, they wish to use the South, to prey upon the South's sectional consciousness, to further their own selfish purposes. They are working through Southern politicians. No other organization has a stronger lobbying force at work at Washington.

Cotton producers have no part in this campaign against the dairy industry; the oleomargarine interests simply have served to stir up Southern politicians, who, just the same as every other class of politicians, know extremely little about any particular matter, and nothing at all about dairying.

Strong propaganda has been loosed through Southern newspapers. On the writer's desk at this writing is a circular now being widely distributed by the oleo forces. This circular reproduces a number of newspaper clippings, all having much to say about how the dairy industry is seeking to injure the South.

Over the top of this circular, in large letters, appear the words, "PRESS OF COUNTRY VOICE NATION-WIDE PROTESTS AGAINST DISCRIMINATION BY ONE STATE AGAINST PRODUCTS OF ANOTHER."

But instead of showing the press of the country to be aroused, the circular produces clippings only from newspapers in Southern states, newspapers that have been misled by the clever propaganda for oleomargarine.

Is the dairy industry fighting the cottonseed oil industry? No! The dairy industry is fighting oleomargarine, which consists largely of cocoanut oil, and this product is gradually being increased to eliminate cottonseed oil altogether. In other words, it seems sure that cottonseed oil is going to be eliminated from oleomargarine altogether even if the South will never miss this very insignificant market.

The oleo people use less than 2 per cent of the cottonseed oil produced. On the other hand, the cattle industry in 1924 used one-half of all the oil meal and oil cake produced by the cottonseed oil industry. Which is the South's friend?

It is seen that the margarine people last year used a mere 20,000,000 pounds of cottonseed oil, whereas seven years ago that industry used 70,000,000 pounds of this oil in its product. In late years cottonseed oil has been eliminated and margarine now contains a very large—and growing—percentage of cocoanut oil, which comes to this country from the Philippines in the form of copra. After the margarine people have used the South all it possibly can, one only wonders how long before cottonseed oil will be entirely eliminated from margarine manufacture.

From the first the margarine industry has operated on a

basis of deception. A recent school survey in a certain community brought out the fact that only about 20 per cent of the children knew the origin of butter! With this surprising ignorance that prevails in many cities, it has been an easy thing for margarine to be palmed off on the public and bought as a product identical to butter—some folks actually believing they have bought butter.

In a large American city not in Wisconsin a firm once conducted the distribution of margarine on a wholesale basis from a large building which bore over the front the words "Wisconsin Creamery." The product was not labeled butter. Neither was it labeled oleomargarine. But the fact remains people were led to believe they were buying pure butter, which was not the case at all.

In Wisconsin the law compels oleomargarine to be labeled as such.

Does the oleo industry give the South any industrial wealth? Does it establish industries in Southern states? No; it establishes its industries elsewhere and then operates against the South's dairying development by selling its product to Southern people as a substitute for butter.

Will dairy farmers of other sections settle in the South when they are led to believe that Southerners are antagonistic toward dairying? Hardly. The South's dairying development, which promises a thousand times more wealth for the South than the whole oleomargarine industry, is dependent to a great extent upon dairy settlers.

It certainly seems to me that Southerners are being stirred up to work for their own downfall. For a long time it has been a popular demagogic trick for Southern legislators to howl about discrimination against cottonseed oil. For the love of reason, let them and all Southern newspapers investigate facts.

As dairying develops it is giving to the South new industries, new agricultural wealth; it is making it possible for Southerners to buy butter at home. They always will be able to sell cottonseed products to the dairy industry of the West, and the more dairying expands the more of these products will the dairy industry demand.

We do not find any of the health experts siding with the oleo people. Dr. Harvey W. Wiley, testifying at Washington, had nothing derogatory to say about oleo. But asked if he would serve it on his own table there was an emphatic "No."

Every expert is agreed that there is no substitute for butter. The President of the United States has said, "There is no substitute for that which comes from the dairy cow."

Herbert Hoover has said, "The white race cannot survive without dairy products."

Dr. E. V. McCollum has said that the nations that lead in science, art, music, industry and in other endeavors are nations that consume the most dairy products.

On general principles I should never like to see the South line up with an imitation food product.

If anyone feels disposed to quarrel with the constitutionality of the proposed national legislation, I have no comment to make. But if the Southern leaders believe they are working for the best interests of the South in siding with the oleo people, then somebody is making a very serious mistake. And there certainly is no excuse for the barrage of telegrams Southerners are sending to Western legislators urging them to stand for the oleo industry. These telegrams simply have served to make the South more misunderstood in a part of the country where it is easy for this to happen.

In this connection the Western people and the South are working hand in hand for a common purpose. The West wants the South's cottonseed products, really and truly wants them, whereas the oleo people want to dispense with the negligible quantity they are using. The West is fighting against cocoanut oil, imported from a savage land to compete with

dairy production in America—North and South—to the injury of the country as a whole. It is to the interest of the South to make this same fight with the West.

Being a native of the South, and loving my section as I do, I think I can make the foregoing statement without being misunderstood as being influenced by any particular industrial group.

CRADDOCK GOINS.

Grain and Hay on Farms.

According to estimates of the Agricultural Department, stocks of corn, wheat and barley on farms March 1 were smaller than reported on the corresponding date of 1924, while stocks of oats and hay were larger.

The amount of corn on farms March 1, 1925, based upon reported percentages applied to the entire crop, was about 801,609,000 bushels, or 32.9 per cent of the 1924 crop, compared with March 1, 1924, stocks of 1,153,847,000 bushels, or 37.8 per cent of the 1923 crop. The proportion of the 1924 crop which is merchantable is about 66.3 per cent, compared with 80.8 per cent of the 1923 crop.

Stocks of corn on Southern farms March 1 amounted to 295,713,000 bushels, compared with 339,337,000 bushels March 1, 1924. The smaller supply and higher prices mean an increased cost in producing the South's cotton crop this season.

The amount of wheat on farms March 1, 1925, was about 113,928,000 bushels, or 13.1 per cent of the 1924 crop, compared with March 1, 1924, stocks (revised figures) of 137,717,000 bushels, or 17.3 per cent of the 1923 crop.

The amount of wheat in country mills and elevators March 1, 1925, was about 69,065,000 bushels, or 7.9 per cent of the 1924 crop, compared with March 1, 1924, stocks (revised figures) of 98,283,000 bushels, or 12.3 per cent of the 1923 crop.

The amount of oats on farms March 1, 1925, was about 550,342,000 bushels, or 35.7 per cent of the 1924 crop, compared with March 1, 1924, stocks of 447,366,000 bushels, or 34.3 per cent of the 1923 crop.

The amount of barley on farms March 1, 1925, was about 43,127,000 bushels, or 23 per cent of the 1924 crop, compared with March 1, 1924, stocks of 44,930,000 bushels, or 22.7 per cent of the 1923 crop.

The amount of hay (all) on farms March 1, 1925, was about 37,386,000 tons, or 33.2 per cent of the 1924 crop, compared with March 1, 1924, stocks of 33,455,000 tons, or 31.4 per cent of the 1923 crop.

United States farm price comparisons for February 15 are: Corn, 114.5 cents per bushel this year, 76.5 last year, 72.5 in 1923, 104.8 for 1915-1919 and 60.1 for 1910-1914; wheat, 169.8 this year, 98 last year, 104.4 in 1923, 162.9 for 1915-1919 and 89.2 for 1910-1914; oats, 53.4 this year, 45.4 last year, 42.4 in 1923, 59.3 for 1915-1919 and 39.8 for 1910-1914; barley, 84.8 this year, 58 last year, 56.2 in 1923, 90.7 for 1915-1919 and 63.3 for 1910-1914; hay (all), \$12.83 per ton this year, \$13.60 last year, \$12.04 in 1923, \$14.35 for 1915-1919 and \$12.02 for 1910-1914.

Kansas City Flour Mills to Expand.

Kansas City, Mo.—Contracts will soon be awarded by the Kansas Flour Mills Co. for additional elevator storage capacity of 500,000 bushels to its North Kansas City plant, work to begin at once and expansion to be completed before the next crop moves. The company also plans additional storage of more than 250,000 bushels to the elevator at Alva, Okla., operated in conjunction with its plant at that point, and a new workhouse with increased storage space at its plant at Enterprise, Kan.

A Method for Producing Dehydrated Lump Lignite.

By DR. E. P. SCHOCH, Head of Division of Industrial Chemistry, University of Texas, Austin.

[In sending to the Manufacturers Record the following article by Dr. Schoch, G. M. Knebel, vice-president and general manager of the Texas State Manufacturers' Association, writes: "Ever since Dr. Schoch made his address on the above subject at our annual convention last May we have tried to secure from him a copy of the talk. We have just received it with a letter, in which he states: 'In this address I announced for the first time the solution of the problem of changing lignite to a storable, permanent material like soft coal. During the following summer I built a small experimental plant to verify further my experimental results, and during the fall I made a number of *burning* trials to assure myself that the material would be commercially usable. Until January 1, 1925, I was not absolutely sure of all questions involved, and hence hesitated to print anything about it. I am now turning this information loose without fear of any possible setback. I regret that I could not give you this paper when first wanted, but hoped from day to day to finish the investigation so that I might have no further doubts of it. I think that this matter is of such importance as to require the utmost care on my part prior to publishing it, as many people might otherwise have been misled into financial losses.'"—Editor Manufacturers Record.]

It is well known that Texas has about 22,000,000,000 tons of lignite "in sight" and probably more to be revealed by further exploration. This lignite has a distinctly woody or charcoal structure. Its average composition in the ground is as follows: Water, 32 per cent; volatile combustibles, 30 per cent; fixed carbon, 30 per cent; ash, 8 per cent; heating power, 7500 B. T. U. per pound.

When exposed to the air it gives up a larger portion of its moisture, and it "slackens" to a fine powder. This "slackening" takes place extensively within two days in the summer, and at the end of two weeks even larger piles have slacked 60 to 80 per cent. The resulting powder is lost mostly through the grate bars, it ignites with difficulty, and is unpleasant to handle. Rain or water sprinkled on stored lignite causes it to disintegrate almost immediately, which shows that it is impossible to arrest the slackening by sprinkling the material. Nothing but complete submersion under water of the freshly mined lignite will arrest the slackening, because the change consists not only of the loss of water, but is accompanied by a slight oxidation of the material.

This oxidation is the cause of the spontaneous combustion so frequently experienced with stored lignite. When this has once started it is difficult to stop.

For these reasons raw lignite cannot be stored and used as ordinary coal. Furthermore, raw lignite is difficult to burn, and produces only relatively low temperature in the fire unless it is burned on specially constructed stokers. The latter are expensive to install, and cannot be operated economically except in large plants.

Many attempts have been made to produce a better fuel out of lignite. These range from an attempt merely to dry the lignite and briquette the resulting powder, to heating the lignite until practically all volatile matter had been expelled and then briquetting the residue. The attempt to dry the lignite and then to briquette it is due to the fact that German lignite is briquetted in this manner. However, German lignite is of a mud-like consistency, as far as I know, and contains 50 per cent water, of which about 35 per cent is expelled to make briquettes and yet leave enough moisture to bind the mass together when it is pressed into briquettes. Texas lignite has a woody, fragile structure, which will not stick together unless a binder is added to it. Since the moisture and volatile matter in Texas lignite does not serve to bind it, but lowers its heating power, it is naturally desirable to expel it until a residue is obtained which has the highest possible heating power, and then briquette the latter. Trials made in our laboratory in 1918 showed that the material should be slowly heated up to about 700° C. to obtain a residue with the highest heating power. It is then in the form of a coarse powder with the following average composition: Volatile combustibles, 8 per cent; fixed carbon, 68.4 per cent; ash, 23.6 per cent; sulphur, 9 per cent; heating power, 11,100 B. T. U.

A ton of raw lignite yields about 800 pounds of carbonized

residue, about 40 pounds of tar and 2900 cubic feet of gas, with a heating power of 410 B. T. U. per cubic foot. The tar has no particular value except as a fuel. Since this operation must be carried on at the mine, the gas has no commercial value, and hence can be used as a fuel only. No determination of the ammonia obtained was made, because at most the quantity of ammonia obtained is small and its economical recovery doubtful. To sum it all up: The retorting of lignite gives no by-products of value, and requires 2½ tons of lignite to produce a ton of carbonized residue.

The above was not only tested out in the laboratory, but was tested out with a small plant operating on a ton in 24 hours. This plant was built and operated on the university grounds in the summer of 1919 with funds kindly donated by the San Antonio Public Service Company. The briquetting of this residue was never attempted here, but an investigation was made of similar trials made in Canada. The latter showed that an asphalt or starch binder amounting to 10 per cent of the finished briquettes had to be supplied to hold the material together. An estimate of the cost of this whole operation showed that such briquettes cost at least \$6.50 per ton, and this cost appears to be prohibitive. The Canadian Lignite Utilization Board has reached the same conclusion and has given up all trials in this direction. Its work and final conclusions are set forth in its report issued January, 1924, at Montreal.

The United States Bureau of Mines has more recently carried through another experimental test of this procedure at the North Dakota School of Mines. The results obtained have been set forth in the United States Bureau of Mines Bulletin 221. The estimated cost of the briquettes was found to be \$9. This figure speaks for itself.

It seems to be the opinion of the officials of the Bureau of Mines that the carbonized residue might be used without briquetting. The material is essentially in the form of a coarse powder, and has been designated as "lignite char." Whether or not this material will ever be used as a fuel remains to be seen.

On account of the high costs of the procedures set forth above the writer gave up, in 1919, all further attempts in this direction and tried to solve the problem along a totally different line. The problem presented itself to be this: To obtain a lump material which will be as free as possible from moisture, which will not slack but keep indefinitely in storage, which will not take fire spontaneously, which will not reabsorb water, and which can be produced at the mine at the same, or even lesser, cost than the cost of bituminous coal of the same heating power in Oklahoma or Alabama, so that the difference in freight cost as compared with their distances to soft-coal mines may render this lignite cheaper than soft coal.

This problem was solved initially when it was discovered that lump lignite may be heated in petroleum oils to drive off all moisture without its undergoing the least slackening or

disintegration. However, many difficulties remain to be overcome. The writer devoted his entire time during the summer of 1922 to this work. For a while the problem seemed not to admit of final solution, and not until the last few weeks were the last difficulties overcome, and this is the first authoritative announcement of the process that could be made.

The process consists essentially of the following: The raw lignite is dumped into a container with a perforated bottom, and this is placed in a retort with a tight-fitting lid, a bottom connection to admit the oil and an upper outflow connection. Coal petroleum oil, composed of about 75 per cent gas oil and 25 per cent of heavy fuel oil, is pumped into the bottom of the retort and passes upwards through the lignite, overflows into a large flat vessel, where the oil foam separates into steam and oil. From this "defoamer" the vapors pass into a condenser while the oil drops down to the circulating pump, by which it is driven through pipe coils in a furnace and then returned to the bottom of the retort holding the lignite. The oil is gradually heated up until a temperature of 570° F. is reached in about three hours. During this operation the water is steamed out of the lignite, and it, together with some of the oil vapors, is condensed to regain the vaporized oil. When the above temperature has been reached, the oil is drained completely out of the bottom of the retort and superheated steam is blown through the lignite to vaporize the light oil absorbed by the latter; by this means the only oil remaining in the lignite will be heavy fuel oil, which will amount to about 5 per cent of the weight of the dehydrated lignite. This remnant oil serves mainly to "film" the pores in the lignite, so that it will not reabsorb moisture nor react with air; it does not serve as a binder.

To cool the charge, some ordinary steam is blown through it until the temperature has dropped to about 300° F., and then a shower of cold water is poured over it. The lid of the retort is then removed and the lignite container with its charge is lifted out, more water poured over the lignite until it is cooled below 150° F., and then the charge is dumped.

The whole operation lasts only about four hours.

A commercial plant producing about 500 tons of product in 24 hours will cost about \$50,000. Only two men per shift will be required to operate the plant—one to watch the insertion of the loaded baskets, the other to feed the furnace. The mine cars will deliver the raw lignite direct into the baskets, and the latter will dump the dehydrated lignite into the railroad cars. The operation of the plant can be started or stopped at a moment's notice without extra expense or loss.

In spite of the heavy drenching with water that the material receives, it does not absorb more than about 3 to 3.5 per cent water at most. It has even been completely immersed in water without its absorbing more than this. The material has been kept for six months or longer in all sorts of weather without any deterioration.

The material has the consistency of charcoal, and hence will naturally split easily. The large pieces generally crack up into smaller pieces on handling. After the material had been hauled about three miles and unloaded into a bin in a cellar, it had some finer particles in it, but over 90 per cent of it was in the form of lumps with diameters ranging from 1 to 4 inches, at least 50 per cent having diameters larger than 2 inches. It has been used as fuel in a large hot-air furnace, in a small "Coles" coal stove and in a kitchen stove, all with complete satisfaction to the three different users. A fire is started easily with it, it will form and hold a good

Author's Note—During the summer of 1924 an experimental plant operating on lots of 1100 pounds of lignite at a time was built on the grounds of the Austin Gas Company and operated to produce about six tons of the material. The process was demonstrated before a number of lignite producers, railroad officials, public-service corporation officials and technical experts of concerns interested in Texas lignite.

bank of hot glowing coal, and it will always burn out completely, forming a flour-like white ash without clinkers.

In the treatment the material gives up its moisture, which amounts to about 32 per cent in freshly mined lignite. The finished product contains about 3 per cent of water—which is about 2 per cent of the raw material—hence 30 per cent of water is expelled and the freight on this is saved. This, together with the fact that it contains about 5 per cent of heavy fuel oil, makes its heating power approximately 50 per cent greater than that of the raw lignite from which it is prepared. The heating power is at least 11,000 B. T. U. per pound, and when prepared from a moderately good grade of lignite its heating power will range from 11,400 to 11,800 B. T. U.

In using a fuel we are concerned not only with the number of heat units it furnishes, but also with the fire temperature it produces, because the amount of heat obtained from a fire is proportional to the difference between the temperature of the fire and of the flue gases; the latter temperature is generally nearly the same from various fuels, hence the hotter the fire, the greater the efficiency of a fuel. Hence, when used under the same conditions, dehydrated lignite is about one-third more efficient than raw lignite, or it is $\frac{4}{3}$ as efficient. Since its content of heat units is $1\frac{1}{2}$ times as great as that of raw lignite, one ton of dehydrated lignite will produce the heat effect of $\frac{3}{2}$ times $\frac{4}{3}$ tons (equals 2 tons) of lignite.

The cost of production of this material is estimated as follows: To produce one ton of product we need $1\frac{1}{4}$ tons of raw lignite. This furnishes 1900 pounds of dehydrated material and also the necessary fuel. Assuming a price of \$1 per ton at the mine, this amounts to \$1.75.

We need 100 pounds of heavy cheapest grade of fuel oil of any sort whatever. Assuming the cost per barrel, in large lots, at \$1.80, thus guarding against a great rise in the cost of fuel oil, we shall need 60 cents' worth of oil per ton of product.

Two men per shift, or six men in 24 hours, at \$4 per man to allow for good quality of labor, amounts to about 5 cents per ton for a 500-ton-a-day plant. Interest and depreciation, at 20 per cent per annum on a \$50,000 investment, with the plant only working half time, amounts to 11 cents per ton. Hence the total cost is \$2.51 per ton at the mines.

If this material is shipped to Austin, with a freight charge of 72 cents per ton, and delivered to the university with \$1 hauling charge, it will cost delivered \$4.23, which is equal to two tons of raw lignite. The latter now sold to the university under an abnormally low price cost \$4.86. Thus it appears that this dehydrated lignite, which stores well and can be fired easily, will actually cost less than the cheapest raw lignite ever furnished, while the latter cannot be stored and is much more troublesome to handle.

\$1,320,000 Purchase of Texas Oil Holdings.

Wichita Falls, Texas, March 14—[Special.]—The Phillips Petroleum Co., Bartlesville, Okla., has purchased acreage and oil production of a number of companies in the Macon pool in Archer county for a consideration of \$1,320,000. The area involved is 947 acres and includes 60 producing wells with a daily output of 2600 barrels. It is stated that further development of the holdings will be immediately started.

Church May Erect \$2,000,000 Building.

Dallas, Texas.—Plans have been announced here by Dr. L. D. Young, pastor of City Temple Presbyterian Church, for the erection of an 18-story church and office building by the congregation at a cost of \$2,000,000. The structure, it is said, will be erected in the downtown district.

Thirty Years of the Boll Weevil and Still Good Crops of Cotton.

A STRONG PRESENTATION BY THE UNITED STATES DEPARTMENT OF AGRICULTURE OF THE SOUTH'S ABILITY TO RAISE THE GREAT STAPLE.

While the spread of the boll weevil materially increased the cost of producing cotton in the United States, this fact need not discourage the producer, because, even at its increased production cost, cotton is still the cheapest of fibers and there is a growing world-wide demand for it. The weevil reduces the yield per acre and necessitates the use of poison and other expensive control measures. It also forces cotton production out into new weevil-free areas, which are less suitable to cotton growing than the older cotton-growing districts. Cotton production in this country is, therefore, permanently on a more costly basis. Nevertheless, the growers are learning more and more successful ways of combating the weevil, and there is no reason for panic over its inroads.

This is the view of the United States Department of Agriculture, which says exaggerated ideas persist as to the effects of the weevil and the difficulty of coping with it. It is about 30 years since the weevil invaded the United States. It has now spread over the entire cotton belt. Alarmists declare that the country is nearing a time when it will not be able to supply its own cotton requirements, to say nothing of furnishing the bulk of the world's supply. Such fears are unwarranted. Available control methods afford hope of holding the pest in check. **Meantime, judging by their performances up to the present, other countries that have been prompted by our difficulties to expand their cotton acreage are not likely to make any large addition to the world's cotton supply for many years.**

The department does not minimize the seriousness of the weevil. This is shown by the fact that yields in Louisiana, Mississippi, Alabama, Georgia and South Carolina have, at times, been reduced from 50 to 75 per cent below the average of the period before the insect entered those states. Its indirect effect in discouraging production has perhaps been as important as the damage done directly by the destruction of bolls. Nevertheless, the fact that two states, Texas and Oklahoma, have twice grown record crops under weevil conditions indicates that the weevil is not fatal to the cotton industry. These records were made in years when the weevil was checked by nature. They were also largely due to tremendous acreage expansion made in response to high prices. They, consequently, do not necessarily indicate any great success in weevil control. Nevertheless, such crops certainly show that the weevil is not preventing cotton production.

There has been a gradual revival of cotton production, even in districts where the weevil is particularly hard to combat, when prices have been sufficiently high to justify the increased cost of production. In some districts the weevil has almost wiped out cotton growing. However, these districts were not always the best cotton lands before the days of the weevil. Weather conditions often caused yields to fluctuate greatly from year to year, so that their average production was not materially above the profit line. Lands where cotton was always a precarious crop now can seldom make cotton growing pay under weevil conditions. But where conditions are less unfavorable the general experience has been that the weevil creates severe havoc on its first appearance, but afterwards is dealt with by methods which make its toll not prohibitive.

Increased production of cotton has been achieved in parts of Mississippi since the weevil entered that state. It entered Bolivar and Coahoma counties in 1909. In the five years

before 1909 Bolivar had a maximum production of 84,000 bales and a minimum production of 55,000 bales. Since the weevil struck it Bolivar county has produced one crop of 128,000 bales, an output certainly due in part to increased acreage, but not entirely to that cause. Control of the weevil has been a big factor. Coahoma county in the five years before 1909 had a maximum crop of 59,000 bales and a minimum of 40,000 bales. Since then it has had a crop of 110,000 bales. Neither Bolivar nor Coahoma county has had as small a crop since the appearance of the weevil as it had in the five years immediately preceding the invasion. Of course, increased acreage has been important in maintaining the gross production.

In 1921 the estimated damage by the weevil to the American crop amounted to 30.98 per cent. In the following year the damage dropped to 24.10 per cent, and in 1923 to 19.05 per cent. Figures for 1924 are not yet available, but it is expected they will prove to be even smaller than those for the preceding year. This drop in weevil damage, of course, should not be interpreted as indicating actual control of the pest or as showing the extent to which control has been effective. Nature, in many sections, has helped unusually in fighting the evil in the last two or three years. At the same time the figures, according to the department, unquestionably show that there is no need for the cotton belt to throw up its hands and give up the fight.

Further encouragement is seen in the fact that yields of cotton per acre have shown a substantial recovery since the worst period of boll weevil damage. This, likewise, is not by itself absolute evidence of weevil control. It is a result, in part, of the tendency of the boll weevil to drive less favorable cotton lands out of cultivation and to bring about more careful selection of cotton acreage, so that the showing per acre of the lands remaining in cotton is affected favorably. Nevertheless, the increased yield indicates some real progress in weevil control.

It is interesting to note how the states worst affected by the weevil have increased their production in recent years. Alabama produced 979,000 bales last year, compared with only 588,000 in 1921. Georgia's 1924 crop was 1,023,000 bales, compared with 776,000 bales in 1922; South Carolina's production in 1924 was 823,000 bales, compared with 517,999 in 1922; Arkansas had 1,062,000 bales in 1924, against 867,000 bales in 1919; Texas has made a pretty steady climb from 2,130,000 bales in 1921 to 4,176,000 bales in 1924.

To be sure, these crops are not in themselves evidence of weevil control. Acreage changes are generally responsible for about 50 per cent of production changes. It is true also that a comparison of yields in one or two years does not indicate growth in weevil control, because weather conditions in those years may have been exceptionally unfavorable to the weevil. Making every allowance for these considerations, however, it is still a fact that increased cotton production on the scale effected by these states is a good sign. The total cotton crop of 13,153,000 bales in 1924, compared with 7,954,000 bales in 1921, shows that the United States is still growing cotton.

Reduction in weevil damage is due partly to natural checks and partly to artificial control of the pest. It is impossible to say what part each of those factors has played in the final result. Natural checks to the weevil include winter destruction of hibernating insects, increase in parasites and weather

not dry enough to stop growth but too dry for the weevil. Artificial controls include the destruction of cotton plants in the fall before the frost, the cleaning up and destruction of hibernating shelters, proper preparation and fertilization of seed beds, production of types yielding the greatest amount of cotton in the shortest time and the application of calcium arsenate in dust form for the purpose of poisoning the weevils. The use of calcium arsenate has passed the experimental stage and is now widely accepted by farmers. These methods have been useful, and better ones may yet be devised. There is no reason, says the department, to consider the boll weevil a worse pest than the pink bollworm, which is common in other cotton-growing countries but which has not yet obtained a permanent foothold in the United States.

When the boll weevil scare was at its height, exaggerated fears were expressed in cotton-consuming countries that the United States would soon be unable to supply the world demand for long-staple cotton. These apprehensions had the double effect of stimulating cotton growing in other countries and causing American cotton growers to feel that they were facing a period of keen foreign competition, under conditions highly disadvantageous to themselves. Cotton acreage abroad has certainly been increased since the boll weevil became a serious menace to American production, yet the effect on world supplies has so far been comparatively small. Perhaps the increase has amounted to 2,000,000 bales annually. It has been greatest in India, but Indian cotton does not ordinarily compete with the American crop because of its shorter staple. There is an increasing area in India, however, in which varieties which do compete directly with ours are being grown.

Cotton acreage has been increased in India, South Africa, Australia, Brazil, Peru, Argentina, Uganda, Sudan, Korea and Japan, and probably in China. The British Government in its dependencies is encouraging the production of cotton by means of subsidies. New undertakings are subsidized in India by price guarantees. Egypt has direct subsidies: the same is true of Australia and the British Colonies in Africa. Doubtless eventually this expansion in acreage will mean a substantial addition to the world's supply of cotton. But the movement is in its experimental stages and there is no evidence that cotton production, notwithstanding the boll weevil, is attended with less difficulty in other countries than in the United States. It is worth noting, too, that foreign countries are faced with the necessity of adapting American varieties of cotton to their growing conditions, since those varieties are demanded in the world markets. For the present, however, their competition is largely in the production of the poorer grades. Our growers can avoid it by keeping up their standards of quality.

Foreign cotton growers will not have a walkaway in their effort to capture this country's lead in cotton production for export. Other countries have as many insect pests as this country, and some of these pests, notably the pink bollworm, are considered worse than the weevil. The pink bollworm has spread over Egypt in the last 10 years. In the same period the yield of cotton per acre in Egypt has been reduced from 500 pounds per acre to 300 pounds. Undoubtedly the pink bollworm has been an important cause of this decline, though probably not the sole cause. India likewise has suffered a decline of production per acre in the last 10 years, and the pink bollworm has been a serious pest in that country. Some countries that are trying to increase their cotton production have serious labor difficulties. Others are handicapped by poor transportation or by a low level of intelligence among producers.

It is a fact, of course, that the great fluctuations in the world's production of cotton in the last 10 years or so have been mainly due to the ups and downs of production in the United States. Cotton production in other countries has not fluctuated to anything like the extent that ours has. The

extreme points of the swing occurred in 1914 and 1915, when world production of cotton was 28,867,000 bales, and in 1921-22, when the low point of 15,330,000 bales was touched. It is pointed out by the department, however, that it would be a mistake to ascribe this decline wholly, or even mainly, to the boll weevil. It occurred in a period of great disturbance in world markets, due to the war, during which low prices and unfavorable weather conditions both checked production. The weevil was not responsible for all that was blamed on him. Now that good prices for cotton have given the growers a strong motive for fighting the weevil, the inflated reputation of that insect may be let down materially.

Revenues and Expenditures of Missouri in 1923.

The Department of Commerce announces that the total payments for expenses, interest and outlays for the state government of Missouri for the fiscal year ending December 31, 1923, amounted to \$41,455,850, or \$12.04 per capita. Of this total \$24,737,347 represents the expenses of operating the general departments of the state government; \$1,842,542, interest on debt, and \$14,865,961, outlays for permanent improvements. In 1922 the total payments for the state were \$42,232,270, and in 1917 \$13,012,144, a per capita of \$12.30 and \$3.85, respectively. The totals include all payments for the year, whether made from current revenues or from the proceeds of bond issues.

The total revenue receipts of Missouri for 1923 were \$30,238,128, or \$8.78 per capita. This was \$3,648,239 more than the total payments of the year, exclusive of the payments for permanent improvements, but \$11,217,722 less than the total payments, including those for permanent improvements.

In Missouri property and special taxes represented 38.4 per cent of the total revenue for 1923, 40.6 per cent for 1922 and 36.3 per cent for 1917.

The net indebtedness (funded and floating debt less sinking fund assets) of Missouri for 1923 amounted to \$32,094,612, or \$9.32 per capita. The per capita net debt for 1922 was \$8.83, and \$2.01 for 1917.

For 1923 the assessed valuation of property in Missouri subject to ad valorem taxation was \$4,591,215,420; the amount of taxes levied was \$4,591,215, and the per capita levy \$1.33.

Consumption of Fuel Oil by Locomotives.

A total of 63,206,034 barrels of fuel oil was consumed by locomotives of the principal railroads in the United States in 1924, as compared with 58,005,295 barrels in 1923, according to returns received from railroads by the American Petroleum Institute, New York city. These figures include fuel oil consumed in all classes of service. The total consumption in 1924 was made up of 51,251,563 barrels of domestic fuel oil and 11,954,471 barrels of Mexican fuel oil. In 1923, of the total consumption of 58,005,295 barrels, 46,407,231 barrels were domestic oil and 11,598,064 barrels Mexican fuel oil.

The largest consumption of fuel oil was in the middle West and Southwestern districts, totaling 32,651,547 barrels in 1924.

In the Southern district locomotives consumed 1,469,858 barrels in 1924, compared with 1,150,205 barrels in 1923, all Mexican fuel oil.

Loew to Build Two \$1,000,000 Theaters.

Atlanta, Ga.—Plans have been announced by Marcus Loew of New York for the erection of two \$1,000,000 theaters, one at Birmingham and the other in this city. Construction of the Atlanta structure is expected to begin within a few months. Street locations for the buildings have not been announced.

An Interesting Discussion of Foreign Exchanges and the Development of the Orient.

Big Creek, Cal.

Editor Manufacturers Record:

Referring to your editorial on Foreign Markets:

Just before reading this I had unearthed a pamphlet issued from the Government Printing Office, being an "advance print" of an address on "Foreign Exchanges" made by the late Moreton Frewen of England to the National Monetary Commission, February 24, 1910. Mr. Frewen, by his lifetime study of exchanges and their effects on business in every country, had a most uncanny knowledge of all lines of business and industry in detail, and his address teems with demonstrations of the disastrous results to the white nations by the decline in the gold price of silver, following the suicidal legislation against the coinage of that metal, with corresponding benefits to the 800,000,000 silver-using people.

I am sending you a copy of the first half of Mr. Frewen's address. The rest of it is equally interesting.

There was one very striking instance of the adverse effect of low exchange in the Orient upon the cotton exports of the United States that Mr. Frewen didn't mention. With the heavy slump in the price of silver in 1907, American exports of cotton goods to China fell in one year from about 500,000,000 yards to less than 50,000,000 yards. Mr. Frewen did tell the incident of Hakodate, Japan, which in 1892 advertised in England for 1500 tons of iron pipe for water mains. The contract was awarded at 4 pounds 4 shillings a ton, which at the then rate of exchange was \$28 in silver. In 1894 Hakodate advertised for 1500 tons more pipe, and the same British firm tendered at 4 pounds a ton. Owing to the great fall in silver in 1893, the cost of 4 pounds was \$40 in Japanese money. So, Hakodate refused all tenders, erected her own pipe foundry, and has since not only supplied her own needs, but has become a large exporter of pipe to India and China. That is how the American and British monetary policy forces silver countries to establish competitive industries.

Notwithstanding the constant demonstrations of the value of low exchange to other countries, especially stimulating exports, we boast of our dear dollar, which is the big obstacle to the export trade so much desired. But for the internal convulsions which have retarded Chinese development, and the advance in the gold price of silver which has lessened the subsidy to Chinese exports, much of the disasters predicted by Mr. Frewen would no doubt have materialized. Had the tael remained at the low level of 60 cents, Tong Shua Yi's prediction that before many years China would ship steel rails to Missouri River points probably would have been now an established fact.

Aside from the run of exports of Chinese pig iron to Seattle, Portland and San Francisco, it was announced with a flourish of trumpets about 1912 that the Western Steel Corporation had contracted with Hangkau for 3,000,000 tons of pig iron. Its iron works at Port Townsend, Oregon City, etc., couldn't continue to smelt the iron ores of the Pacific Coast against the Chinese competition. So it bought Chinese iron. American newspapers treated this transaction as a great stroke of business, having no idea of what it really meant. But the London Times and London financial journals, seeing in this transaction a probability of encroachment by China on the British as well as the American iron industry, dealt with it in serious editorials.

Some bright American writers actually predicted that the Western Steel Corporation would convert that Chinese pig into steel products and sell them back to China. They were absolutely blind to the fact that steel at, say, \$30 a ton in the United States would command about \$90 a ton in Chinese money when delivered at a Chinese port. Also, that the works at Hangkau were producing steel as well as iron.

Both American and Canadian financial journals hold that the best dollar is the dollar of largest purchasing power. Yet they join with the press in general rejoicing in a general advance in prices of commodities, whereby the purchasing power of the dollar is reduced. This cheapening of money, reducing its purchasing power, naturally stimulates industry and production, and the larger receipts for commodities and services benefit almost everyone. I think it was McKinley who uttered the obvious truth, "The dear dollar means a cheap man."

Have just received a letter from Edmonton, Alberta, stating

that city with between 50,000 and 60,000 population has a debt of \$42,000,000.

S. P. PANTON.

The statement of Mr. Frewen's views in 1910 on exchanges, in which he quoted Prof. Francis A. Walker, Baron Rothschild, James J. Hill, Robert Dollar and others, is of interest, even now, though many world changes in business have taken place since then. Everything which throws light upon the world's financial affairs, past or present, is of interest to all thinking business men. Here is Mr. Frewen's statement, in part, as furnished us by Mr. Panton, a long, intimate friend of Mr. Frewen, who died at his home in England a few months ago:

Washington, D. C., February 24 1910.

Statement of Mr. Moreton Frewen of England before the following members of the National Monetary Commission: Senator Aldrich (chairman), Senator Money, Representative Padgett, Mr. Teller and Mr. Bonyng. Present also, Hon. W. H. Chandler and Gen. A. J. Warner.

"Mr. Frewen: Senator Aldrich, I greatly appreciate the opportunity permitted me of appearing before you this morning. Your objective point is to secure this country, if that is possible, against the recurrence of such panics as those of 1893 and 1907. But, your own security would bring hardly less relief to us in England. It is, indeed, not improbable that we have suffered more from your bank panic of 1907 than you yourselves have. Our profits in trading are more dependent than is here the case upon low rates for money; and with your panic, interest rates went with us to 7 per cent; the entire machinery of our trade and finance was disorganized and, although more than two years have elapsed, our accumulation of capital and of savings is, we believe, still arrested.

"You are looking for the root cause of the disaster of 1907. There may be palliatives in improved banking; possibly, also, your currency system might be perfected. My views as to banking and currency are of no value: on these points I shall not venture to express any opinion. But the third and, as I think, the underlying cause of your disaster, may be in your foreign exchanges. I can think of several countries with inadequate banking facilities and with rotten currencies (British India is a case in point, and some of the South American republics) which yet get on fairly because they are able to maintain favorable exchanges. Indeed, they profess to believe that the very badness of their currencies, by stimulating their exports, buttresses their exchanges. But the best banking and currency system in the world will offer you no protection at all if the foreign exchanges for any reason go against you. That was the trouble here in 1893; it was again the trouble in the summer of 1907, and today it is that trouble, namely, unfavorable exchanges occasioned by an adverse balance of trade, which even now gives a tone of some anxiety to financial New York.

"A part—I venture to think the larger part—of your inquiry then may be directed to this point: How to secure favorable exchanges. Of course, a great harvest failure or a war or other things may result in a shrinking of your exports and thus a drain of your gold abroad. But these causes of trouble are visible in advance, so that the brakes can be applied. But on both the occasions I refer to your exchanges were suddenly shattered by occurrences 10,000 miles away in Asia. The silver exchanges with 800,000,000 people broke with hardly a word of warning here. That is I expect, the danger against which you must be on your guard, if you find any precautions are available.

"I may say there is high authority for the view I express. I do not think there is today any living economist of repute but who shares my belief. In 1894 I met Prof. Francis A. Walker of Yale in London. Since John Mill, there has been no economist whom we in England regard as quite the equal of Walker. His books, translated into many languages, are being taught today all over the world. I asked Professor Walker to what cause he referred the world-wide financial disaster of 1893. Professor Walker said:

"Without question, it was the great sudden break in silver last June; it shut off the effective demand for our goods of

800,000,000 small customers. A sudden break in the price of silver will always prove the forerunner of similar trouble.'

"A few days later, dining with Sir William Houldsworth, I asked Professor Walker to repeat to our friends what he had said to me on this topic. I recall that Mr. Balfour was present, and also Mr. Lidderdale, the governor of the Bank of England, and that they were apparently greatly impressed by the extreme earnestness of Professor Walker's remarks, which he concluded with these words:

"I regard the silver problem as far more important than any other mere problem in finance. I believe that with its right settlement is bound up the very progress of civilization for the Western nations."

"His short speech I wrote down from memory and sent to Professor Walker next morning for his revision. It was published at that time in a New York paper—the Sun. I should also like to put on record the gloomy prophecy of Baron Alfred de Rothschild, who represented Great Britain at the Brussels Monetary Conference of 1892-93. These were his words:

"Gentlemen, I need hardly remind you that the stock of silver in the world is estimated at some thousands of millions, and if this conference breaks up without arriving at definite results there may be a depreciation in the value of that commodity frightful to contemplate and out of which a monetary panic might ensue, the far-reaching effect of which it is impossible to foretell."

"Within four months, silver fell some 16 cents an ounce, by far the greatest fall except that of 1907-8: our entire export trades with Asia were for the time suspended, and the gold exchanges of the Western nations were for several months as an engine without a flywheel. It is truly surprising and disheartening that we in the West should have received warning after warning from Asia, the focus of the danger, but that the warnings left little or no impression. The disaster of 1893 wrecked not much, if at all, the silver countries: it was the gold countries that had to bear the sudden strain in the disaster to their exports. Probably, one-fourth of your railway mileage passed into the hands of receivers, while in Australia, a country of less than 4,000,000 people, banks with \$400,000,000 deposits on January 1 had closed their doors in August.

"I must go back for a few minutes to the very dawn of the exchange peril, in 1873. Before 1873, for nearly a hundred years, the exchanges between silver Orient and gold Occident had been fixed for the world, because France, with mints open impartially to both metals, had acted as the universal money changer. But, in 1873, for the first time, the two metals lost all interdependency, and began to fluctuate widely, just as do the prices of beef and mutton. The Suez Canal had been constructed, and Manchester supposed she would now have greater facilities in exporting yarns to the Orient. But, on the contrary, the exports of Manchester to China, Japan and Hongkong were almost stationary, while the exports of Bombay to these markets were expanding with prodigious rapidity. For example, the exports of yarn from India to China, Japan and Hongkong in 1876 were only 6,500,000 pounds, while that same year from England they were 30,000,000 pounds. In 1892, these exports from India were 178,000,000 pounds, from England 32,000,000 pounds. The Manchester Chamber of Commerce, much in the dark as to the cause of this prodigious expansion of Oriental industries, made a full examination of all the factors involved, and in 1888 the chamber issued its report. They say:

"We are led to the conclusion that the principal cause which has enabled the Bombay spinners to supersede those of Lancashire in exporting yarn to China and Japan is the great fall in exchange since 1873. It appears that the geographical advantage enjoyed by the Bombay spinner has been lessening, while his power to compete with Lancashire has been increasing."

"The chamber points out that in 1876 Bombay's exports were worth in rupees 313,000 pounds, and in 1892, 4,233,000 pounds. The Yokohama Chamber of Commerce forwarded in 1894 a memorial to the London chamber, which concludes as follows:

"For the reasons we have indicated, we believe that if existing conditions continue, their effects on the commerce of the world will be of a momentous character, while if they are to be altered it should be done without further loss of time. Every month of delay in monetary reform does not only a temporary, but a permanent injury to the trade of all countries having a gold standard, as, although the eventual righting of the silver question may check the further establishment of mills in Japan and China, those already erected will remain keen competitors of Lancashire and the West, and there will be great difficulty in ever again getting back the trade now

being diverted. Already, under the influence of cheap silver, a large proportion of the trade east of the Suez Canal is finding for itself new channels, which will gradually be closed to Western competition, and we foresee that further persistence in the monetary policy of Great Britain must entail an injury to the manufactures and industries of the West, the extent of which is incalculable."

"Said Mr. Kopsch of Shanghai:

"Silver-paid Chinese labor has driven every European sailor and fireman from the decks and stokeholds of foreign vessels plying on the coast of China, and the premium paid by gold countries to silver labor will crush the efforts of the machinists to reap the profits of his toil in the East, just as it has vanquished the seaman."

"The evidence which Sir Thomas Jackson, chairman of the Hongkong and Shanghai Bank, gave before the Singapore commission in 1902 is even more ominous now than when it was given:

"I was in Shanghai in 1867; then the only items of export were tea and silk. Now, the low exchange has enabled them to export all sorts of things—hides, tallow, wax. In fact, in a ship of 6000 tons you will find tea and silk not 5 per cent of the cargo. There are 101 articles exported from China now that were impossible to export 30 years ago."

"In the House of Commons, February 26, 1895, the following resolution was passed unanimously:

"That this House regards with increasing apprehension the constant fluctuations and the growing divergence in the relative values of gold and silver, and heartily concurs in the recent expressions of opinion on the part of the Governments of Germany and France as to the serious evils arising therefrom; it therefore urges upon Her Majesty's Government the desirability of co-operating with other Powers in an international conference for the purpose of considering what measures can be taken to remove or mitigate these evils."

"In May, 1908, Secretary Root sent the following memorandum to your consuls in the Far East:

"(1) What, as shown by "Index numbers," or the price lists of wholesale commodities, has been the tendency of prices since 1896, measured by silver currency—the tael, the dollar, the rupee?

"(2) Whether firms importing from the United States, Great Britain and Germany have, during the past 12 months, found the great fall in the price of silver matter for serious disturbance to their business? Whether, also, this fall has considerably stimulated the export trades?

"The consular replies are very interesting and important, and with scarcely an exception they declare that the then recent great fall in silver is having the most serious consequences; that in the language of Mr. Heenan, your consul at Niuchwang, it 'paralyzes trade, which becomes a mere matter of speculation.'

"The American consul at Chefoo writes (report Director of the Mint, 1909):

"The present rate of exchange is a check to American Asiatic trade, so far as exports from the United States are concerned. Commercial agents tell me they can import nothing. American flour has stopped coming. I am told that many American exports have never been cheaper to the foreign buyer than at present, and that therefore our exports ought to be increasing, but a comparison of the rate of exchange for last year and now shows that in order to equalize the cost to the foreign buyer of \$100 (gold) worth of goods, they must now be sold for \$80 (gold). Thus, it is seen that, unless a reduction of materially over 20 per cent of last year's prices is made, American producers are not able to hold out any financial inducement to their Chinese buyers, as the extra items of freight and insurance paid in gold would compel a discount from the last year's price of at least 21 per cent."

"In an interview for the Times, J. J. Hill, president of the Great Northern Railroad, said:

"We must await the proposals of the Monetary Commission at Washington. The silver problem is full of difficulty, and I wish it were possible to ignore it. Our consuls in Asia warn us, however, that at the present rate of silver exchange Asia has ceased to import American wheat, lumber or flour, and that the Shanghai merchant who 18 months since bought a sovereign (\$5 gold) with 5 taels must now pay nearly 8 taels. The result is disaster. He no longer buys."

"Let me quote from a very interesting letter which Hill wrote to a friend of mine a month since (January 17):

"It appears that, as long as the workers of the Orient are content to accept silver at par for their low wage, while the merchant and manufacturer can sell their products abroad for gold and turn it into silver at current rates of exchange, not only must exports to the Orient tend to decrease rather

than increase, but it will presently become a question whether the markets of the rest of the world can be saved from a competition stimulated by exchange conditions that we are powerless to control. Undoubtedly, this subject needs as much attention as is being bestowed on the general rise of prices with which it is connected. It is not understood or even mentioned in the discussions of our time. But it will presently force itself unpleasantly upon the notice of other countries, not only in their changing trade balances with the Orient but in the appearance in their home markets of a competition with which they are unprepared to deal. The adoption of prohibitive tariffs against the Orient, which implies retaliation and the destruction of that trade; the reduction of standards of living and wages in other countries until the difference between these and those of the Orient shall cover only the difference in efficiency of labor; and some form of agreement upon monetary standards and ratios that will equalize exchanges once more are the only remedial measures that suggest themselves. The matter is becoming sufficiently urgent to call for earnest consideration.'

"I must especially emphasize the fact that your exchanges are adversely affected in the case of a break in silver, not in one direction but in both. In the case of a serious drought in your country, simultaneously injuring were that possible, every staple crop, your exports of cotton, wheat and corn would shrink and you would know the extent of your losses. But, not only does a fall in silver contract your exports to Asia, but the same fall greatly stimulates all that Asia sells to you. This point is well made in the letter written to me last year by the currency envoy of the Chinese Government, Tong Shoa Yi:

"In China, fluctuations in exchange, such as those of last year, are, of course, very troublesome for our importing merchants; still, no doubt, last year's fall in silver greatly assists our mills and manufacturing industries, which might be damaged by the competition of imported foreign goods if the exchange rose. Thus, the fall in exchange is even as an increasing tariff, but unlike a tariff, our exports are not reduced, but are, so to speak, subsidized."

"I might put it more broadly still, for if because of the fall in exchange we in Europe, as is today the case, cannot sell our goods to Asia, we cannot buy from America. In December last I was addressing the Chamber of Commerce at San Francisco on this issue, and Robert Dollar came to see me after the meeting. He is president of the Dollar Line of steamships, which run between Portland, San Francisco and Hankau. Mr. Dollar told me that before the great fall in silver, commencing in 1906, he had no difficulty in securing freights outward for his ships, chiefly lumber, wheat, hardware and flour, but at that time it was very difficult to obtain any return freights. Now, however, his ships run East almost empty, and come home full, the return freights being largely Chinese pig iron of very high quality, rather better, he tells me, than our Barrow hematite. The exchange points are these: Silver fell, between November, 1906, and December, 1908, from 33½ pence to 22 pence per ounce, say 33 per cent; now, what does this involve? I take, for instance, good dressed Oregon lumber costing the Chinese buyer \$25 per 1000 in Portland or Seattle, say \$30 delivered in Shanghai. In 1907 this lumber cost the buyer, delivered at Shanghai, 33 taels per 1000 feet; but, now, at the very same gold price, \$30, it costs the buyer not 33 taels, but 48 taels, so that the Shanghai merchant in place of buying your Oregon lumber is buying from the mills of the Yalu River. You see that the difference in price occasioned by the fall in exchange is 15 taels per 1000; the Chinese buyer has to pay that much more than he did two years ago. It is precisely as though China had free listed lumber in 1907, but had since imposed an ad valorem tariff of 45 per cent.

"So much for your export trade across the Pacific. Now, look at your import trade. Mr. Dollar at the time he was speaking to me had one of his ships in San Francisco harbor with 6000 tons of Chinese pig on board. The Hang Yang Steel & Iron Co. delivers this pig f. o. b. his ships at Hankau for 16½ taels per ton. At the rate of exchange two years ago, 16½ taels cost Mr. Dollar \$15 gold, but today only \$10 gold. Added to this, Congress has been amiable enough to reduce the duty on imported pig in your new tariff \$2 a ton. Here is a reduction of the gold price to the American buyer of Chinese pig iron of no less than \$7 a ton—some 50 per cent. Already a consignment of Chinese pig has reached Brooklyn, and it is quite certain that if these rates of exchange continue the expansion of the Chinese steel and iron industries will be as rapid as in the case of the Bombay cotton mills, the Calcutta jute mills and the Straits tin mines.

"Look, again, at the future of the steel industry. At the

old rate of exchange (I am going back for a moment to 1873) whatever China sold to you for \$5 gold, say her teas and silks, gave her in exchange 3 taels, but today \$5 gold exchange for 8 taels. Now 3 taels in 1873 paid the wages for one day of 25 Chinese mill hands, whereas today 8 taels pay their wages for one day to 60 Chinese mill hands. I asked Mr. Dollar had he seen the big new steel rolling mill at Hankau—the first ever established in Asia. Yes, and he had been fortunate enough to visit this mill in company with Mr. Watson, an inspector of the United States Steel Corporation. He learned from Mr. Watson that the rate of wages was as 15 Chinamen to one white man at, say, Pittsburgh, and the Chinaman, Mr. Watson says, has 90 per cent of the efficiency of the Pittsburgh worker. Is it open to question but that Chinese steel and iron, bonused and subsidized by such exchange rates as today, will overwhelm the competing industries of white men? In 1898 the Shanghai Chamber of Commerce declared:

"That in due course the products of Asiatic cheap labor will prove far more injurious to the interests of wage-earners in gold-standard countries than the presence of Chinese coolies, and that unless silver is remonetized protective measures will have to be adopted to exclude from gold-standard countries not Oriental laborers only, but all those manufactures also which are subsidized by the premium on gold in Asiatic currencies."

"A word more before I leave the question of Chinese steel and iron. We must be very careful as to the way we use mere figures. It was pointed out to me by a Scotch ironmaster that while the exports of pig iron from Glasgow to China have greatly diminished since the break in silver in 1907, yet these Scottish exports to gold-standard Japan had actually suffered more. I was puzzled as to this, but Mr. Dollar at once supplied the reason. Just as the fall in the tael is enabling China to export to your Pacific Coast, so also she now supplies Japan with the pig and coke Japan formerly imported from Scotland. As I said before, it is not merely that our exports, and thus our exchanges, are being undermined with silver-standard countries, but with our gold-standard customers also. Thus, the entire question of silver seems to me of paramount importance. It is not at all the same question which Senator Teller had under review, and which we were so concerned about before 1896. That was a mere 'local issue,' accentuated, we thought, by the fall of gold prices. That fall of prices placed the debtor class at a disadvantage, but at least what the debtor lost the creditor gained. But with the rapid rise of gold prices since 1896, occasioned by the great abundance of the new gold, that issue has disappeared, but in its place we have a vastly more imminent issue, for now the rise of gold prices magnetizes everything that China exports, and should that rise continue, as no doubt it will, then industry after industry today employing white labor must be transferred to Asia."

Mr. Bonyng—"Why was it that China, if she was receiving such a stimulus from the fall in the price of silver, yet joined with the Government of Mexico in a request to this Government to aid them in bringing about stability of exchange—higher rates of exchange?"

Mr. Frewen—"Did they ask a higher rate of exchange?"

Mr. Bonyng—"Stability."

Mr. Frewen—"Yes, stability: very low and fixed exchanges; that is what China asks; her exchanges to be fixed so much lower than the rates now fixed by the Governments of India, Japan and the Philippines that she can compete on terms of great economic advantage with Bombay, Tokio and Manila. I went over all that ground last year with His Excellency Tong Shoa, the Chinese envoy. His Government wanted fixed low exchanges, say the tael at about its present bullion rate, some 60 cents. Given fixed exchange, of course, foreign capital, say the reserve capital of the United States Steel Corporation, would rush into China, because the investor would then know that his capital as well as his dividend was in future secure. But, high fixed exchange, any such rate as the 22 to 1 of the Government of India, that rate the Chinese Government will not hear of for a moment. They are quite aware in China that very cheap silver, such rates as today (40 to 1 of gold), will do more to hurry on the industrial development of China than all other causes and conditions combined. They know that with silver at 50 cents an ounce they hold Indian and Japanese industries by the throat. Why, the fall in silver in 1907 nearly annihilated the Bombay cotton export to China, and by the light of what happened look at the developments in Shanghai in 1908. I see that Professor Parker suppose was at the expense of Bombay. Professor Parker

Parker, in an address at Manchester on the 8th of this month (February), declared the Shanghai mills sold 88 per cent more yarns in 1908 than in 1907, nearly all of which excess I should declare that the Shanghai mills are now making great direct shipments of cotton goods to interior points so remote as Moscow."

A British View of Cotton Growing in the Sudan.

Manchester, England, February 28.—In today's Manchester Guardian there is an important interview with Lord Stanley, who, as a Lancashire man and the eldest son of the Earl of Derby, is keenly interested in cotton growing. He has just returned from a trip to the Sudan. Lord Stanley first visited the Sennar Dam and the Gezira Plains. The dam, he states, is rapidly nearing completion and those responsible have no fear that it will not be finished by July and, therefore, in time for this year's sowing. In the Gezira area 60,000 feddans, of which 20,000 are cotton, are now under cultivation irrigated by water pumped up from the Blue Nile. When the dam is completed and the reservoir is formed, the area will be increased to 240,000 feddans this year and 300,000 next year, of which one-third will be under cotton. A feddan is very slightly larger than an acre.

Lord Stanley stated that the cotton grown in the Gezira area is the finest Egyptian staple, and there are 3,000,000 acres which can be adapted for cotton growing. Kassala was then visited, and in that district he found the same quality of cotton grown under very different conditions. Instead of making use of a dam or of pumps as in other areas, the cultivators have to depend upon the annual flooding of the river Gash. This year there are 15,000 feddans under Egyptian cotton, and next year this should be doubled.

In reply to a question as to whether the growth of American cotton in the Sudan is increasing, he replied that he was only able to see very little of the American rain-grown cotton, as he did not get far enough south to see the best areas. It is curious that the more expensive forms of cotton growing have gone ahead well and until lately the completely natural form of cultivation had been neglected. The development of rain-grown American cotton, however, was now being taken up with energy, not only by Mr. A. Huddleston, the Governor of the Blue Nile Province, but by Colonel Schuster, the financial secretary of the Sudan Government, and a fresh impetus has been given to it by the appointment of Sir G. Archer as the Governor-General of the Sudan, who has had practical experience of this method of cultivation in Uganda. The area suitable for this kind of production is colossal.

With regard to the prospects for the rain-grown cotton, Lord Stanley stated that the success of the scheme depended entirely on the energy of the Governors in encouraging and persuading the natives to go in for this form of cultivation. Lord Stanley summed up the difference as follows: "One form is the cultivation of Egyptian cotton, which requires very careful attention and very considerable capital expenditure, but which, apart from disease, has nothing to fear as to results, and the other method is that of the rain-grown American cotton, which requires virtually no capital except for plowing and ginning, but the success of which is entirely dependent on the rainfall, which is not as regular as it is in, say, England."

Lord Stanley stated that as far as Lancashire was concerned he wanted both forms of cultivation to be developed to their fullest capacity. Financially, he did not think there was much to choose between the two as far as the natives were concerned.

[If England lives long enough, its people may some day get a fair amount of cotton from Africa, but in the meantime the world's cotton requirements will grow more rapidly than the increasing production due to the century-old activities of England in this respect. However, we wish them all possible success.—Editor MANUFACTURERS RECORD.]

Not Much Progress in Cotton Growing in Africa.

Manchester, England, February 27.—At the meeting of the Administrative Council of the Empire Cotton Growing Corporation, held in London this week, a report was presented on the work that has been initiated or carried out since the last meeting held in December, and the committee reported that definite progress had been made in several of the countries in which the Corporation are working.

The Commission appointment by the late Government, which has been visiting East Africa, has now returned to this country and their report is awaited with the greatest interest. The means by which cotton growing in East Africa might be extended was one of the subjects which the Commission was specifically asked to investigate, and it is hoped that they may make fruitful suggestions which may lead ultimately to considerable increase in the output of cotton from all the countries visited.

With regard to cotton growing in South Africa, the entomological staff has been supplemented, and it is hoped to have two, and possibly three, entomologists working on the local pests of cotton. This year 15 men will be working on cotton problems as against four last year. With the approval of the board of trustees, the Corporation have decided to take a financial interest in the Premier Cotton Estates of South Africa.

With regard to cotton growing in southern Rhodesia, arrangements have now been made for the Corporation, the British Cotton Growing Association and the Rhodesian Government to share equally in the provision of at least four ginneries, and private enterprise is also undertaking the erection of some new ginneries.

The report states that in spite of the fact that the area planted under cotton in southern Rhodesia has increased from 3000 acres last season to 62,000 acres this season, the yield may be less as compared with that which will be obtained when the growers are more familiar with the crop. Some farmers have very little knowledge at present of cotton, and in some instances they have only secured relatively poor germination owing to errors in planting.

The committee announce that a plant breeder for the Sudan has been appointed in the person of M. A. Bailey, who is resigning from his position as senior botanist at the Ministry of Agriculture in Egypt. Arrangements have also been made whereby one of the technical staff will undertake the duties outlined for the chemist in the Russell-Leak report.

It is reported that the growing of cotton for export is being revived in Sierra Leone after a considerable lapse of time, and although it is not expected that this season's crop will be large, it is hoped that further progress will be made next season.

43,000-Acre Land Development in Florida.

La Belle, Fla.—A drainage and land development involving 43,000 acres of muck land in the Clewiston district of Hendry county has been announced by the Sugarland Drainage District Co., Captain F. D. Duff and others. Bids for digging canals, ditches and other construction to cost about \$500,000 will be received until April 1. It is the purpose of the company to sell farms of five and ten acres as soon as drainage is under control and to engage in sugar cane culture.

Little Rock May Build \$1,000,000 Auditorium.

Little Rock, Ark.—An election will be held here May 5 on the question of organizing an improvement district for the erection of a \$1,000,000 auditorium. If the vote is favorable the district will be organized and commissioners appointed to assume charge of all construction details on the building. Thomas Buzbee and others are promoting the project.

\$10,000,000 Island Development at Fort Myers.

Fort Myers, Fla.—Negotiations are in progress between H. E. McCormack and associates, including J. H. Bankhead, Jr., of Jasper, Ala., and city officials of Fort Myers, looking to the acquisition of the river bottom in Caloosahatchee River for the construction of a 1200-acre island for residential development. It is stated that the development as contemplated will involve an expenditure of \$10,000,000, embracing the erection of residences, construction of golf course, boulevards, public parks and other facilities.

Proposals of the promoters, which have been tentatively approved by the City Commission, stipulate that a price of \$200,000 shall be paid for the river bottom on which the island will be built, the promoters to build public parks to a value equivalent to the purchase price, which the city will accept in the lieu of money.

Plans for the development have been prepared by the McElroy Engineering Co. of Tampa, and Robert F. Smallwood, architect, of Clearwater and New York. According to these plans the island would be reached by a bridge about 1000 feet long and seven feet above sea level, surrounded by a concrete seawall. Golf courses will occupy 192 acres of the island and public parks 104 acres, while 23 acres of the southeastern end will be devoted to a resort hotel. A broad boulevard will encircle the island on the river front, provision being made also for Venetian canals and interior avenues and for a lagoon to serve as a yacht basin. A harbor approximately two miles in diameter will be constructed below the island.

Salt Springs Purchased by Syndicate—Involves 78,000 Acres of Land—Health Resort Planned.

Salt Springs, Fla.—One of the largest transfers of real estate ever consummated in Florida has been completed in the purchase of 44,000 acres of land in Marion county and 34,000 acres in Lake county by the Florida Salt Springs Corporation, which has been organized to develop the properties. Officers of the new company include James H. Bright, Hialeah, Fla., president; W. Carl Ray, vice-president; Percy Thigpen, secretary, and J. R. Anthony, treasurer.

The Marion county land has about 32 miles of waterfront on lakes and the St. John's River and contains the Salt Springs, whose waters are noted for curative properties. Acreage in Lake county contains Alexander Springs, similar to the Silver Springs near Ocala, and abounds in numerous lakes surrounded by rolling citrus fruit land.

It is the purpose of the company to make Salt Springs one of the leading health resorts of the South and to develop the properties for agricultural purposes, encouraging colonizations as much as possible. Plans for road construction will be worked out in co-operation with counties and propertyholders interested.

For \$10,000,000 Gas Line in Arkansas.

Little Rock, Ark.—Authority has been granted by the Arkansas Railroad Commission to H. A. Kehler and associates of Los Angeles, Cal., and J. C. Hawkins, El Dorado, Ark., for the construction and operation of a natural-gas pipe line through Arkansas from the northern Louisiana gas fields. It is estimated that the project will cost \$10,000,000, the permit requiring that a survey for the proposed trunk line and laterals be started within 60 days and construction begun within a year. Cities to be served include Hamburg, Camden, Benton, Little Rock, Pine Bluff, Stuttgart, DeWitt, Augusta, Newport, Helena, Wynne, Jonesboro, Paragould, Marion, West Memphis and others.

Danville to Vote on \$950,000 Bonds.

Danville, Va.—An ordinance has been adopted by the Danville City Council calling for an election on May 5 on a bond issue of \$950,000. Projects specified, for which funds from the sale of the proposed bonds will be used, include schools, \$350,000; courthouse and city hall, \$350,000; streets, \$200,000, and sewers, \$50,000.

\$1,000,000 Building Contract at Little Rock.

Little Rock, Ark.—General contract has been awarded by George W. Donaghey to Kaucher, Hodges & Co., Memphis, Tenn., for the erection of a \$1,000,000 office building at 7th and Main streets, this city. The structure will be 14 stories, with stores on the first floor and 559 offices on the remaining floors. Hunter McDonnel of New York is the architect.

Power Company to Expend \$1,000,000.

Fairmont, W. Va., March 14—[Special.]—J. D. Whittemore, vice-president and general manager of the Monongahela West Penn Public Service Co., states that his company will expend \$1,000,000 for improvements and developments in the next year. It will construct a new sub-station in Fairmont to take the place of the Jayenne plant, and will initiate construction of the Cheat Haven water-power plant. The company plans to extend its operations south from Parkersburg through Spencer to the border of West Virginia and Virginia.

\$500,000 Company to Develop 29,000 Acres.

Daytona, Fla.—A half interest in 29,000 acres of land west of this city on the Tomoka River, said to front six miles on the Daytona-Deland road, has been sold by R. Dennis Craig to H. O. Miller of Charlotte, Harry D. Tipton of New York and John W. Schomaker of Brooklyn. It is announced that the West Daytona Development Co., capitalized at \$500,000, has been organized to form a drainage district, develop a townsite and divide the property into farms of from five to fifty acres. Officers of the company include Mr. Craig, president; A. B. Moore, vice-president, and Duncan Mills, secretary and treasurer.

Wheat Supplies Ample.

Stocks of wheat sufficient to meet all domestic requirements, but with prospects of a small carry-over on June 30, are reported by the Department of Agriculture.

Stocks of wheat on farms and in commercial channels, including country mills and elevators, on March 1 totaled approximately 259,500,000 bushels.

Despite a reduction of approximately 50,000,000 bushels of wheat in the United States on March 1 this year as compared with March 1 last year, there is enough wheat to meet domestic requirements for feed, seed and flour, allow for exports equal to those from March 1 to June 30 last year of about 28,000,000 bushels and leave a carry-over of about 51,000,000 bushels on June 30, the report says.

Since January 1 weekly exports have averaged about 2,750,000 bushels of wheat, including flour. If the present volume of exports should be maintained the carry-over would be reduced to around 30,000,000 bushels on June 30. However, this would be an unusually low carry-over for the United States, and if recent lower prices are maintained it seems improbable that stocks will be reduced to this small amount. Economies practiced by importing countries on account of their short crops, including closer milling and the use of wheat substitutes, are tending to reduce import requirements. Trade reports indicate that European supplies are small, but Oriental demand is less active than last year.

Blow to League Dealt in London.

[From the New York American.]

The well-meaning but misguided Americans who on every possible occasion have continued to urge that America enter the League of Nations will find it hard longer to propagate such folly in view of the body blow which the League has just received in London.

Austen Chamberlain of the British Cabinet has sent a note to the British diplomatic service around the world, in which he says:

"The only possible British policy is to consult the British interests, leaving the League of Nations at some future time to develop into an instrument of international peace."

This is a delicate way of announcing the fall of this super-air castle, under whose olive branch pergolas all the difference of mankind were to be turned into exquisite and everlasting harmony!

Coming from England, the country of Lord Cecil, perhaps the real author of the substance of the League program, such a formal declaration is nothing less than an authoritative confession that the League of Nations is a failure.

This fact has long been known by everybody except a few international zealots in this country. This British obituary of the Geneva dream should convince even our emotional fellow-citizens that they are no longer advocates, but honorary pallbearers.

This formal action by the British Government is no mere testimony that the League has been one long failure, for such testimony was not needed. It is rather a service of notice by Great Britain on the League that hereafter she will not even pretend to submit to the jurisdiction which the League recently has assumed to arrogate unto itself.

It is a declaration from London to Geneva that the Benes protocol, submitted to the nations belonging to the League for their ratification, suggested a situation which Britons could not tolerate. One by one the distant parts of the British Empire scorned this Geneva effort to regulate all external and internal affairs of all peoples, whether they belonged to the League or not, and these British possessions went so far as to say they would not be bound by any such determination by any number of nations.

England was willing to engage in the elevating diversion of grand rhetoric and beautiful dreams, but when it came to consenting to an interference with that hard assertion of national sovereignty, which for centuries has been the British policy, then England said NO!

England even resented any League of Nations jurisdiction which would interfere with her opium trade! She was not for that reform because the evil paid.

In other words, England never was for the League of Nations as the misguided idealists of the world were for it, and as they thought England was for it.

No nation in the world ever has been sincerely for the League. Every nation which went to Geneva with pious face and pious words thought it saw in the League an instrumentality for its own advantage. It disputed the authority of that League whenever that authority threatened national advantage.

Now that Britain has hung crepe upon the League of Nations door, let us forget it, and as England looks out for England, let America look out for America.

And as the League is admitted to be worthless, let us carry no more incense to the door of the World Court, created, controlled and fed by the League of Nations.

With the League no more, the World Court is but a helpless orphan.

Contract for Lake Lure Power Plant.

Telegraphic advices from Charlotte, N. C., to the MANUFACTURERS RECORD state that contract for the construction of the Lake Lure dam and power plant at Chimney Rock, N. C., has been reawarded to the Dunavant-Gunter Company and E. H. Clement Company of Charlotte, joint bidders, announcement being made by officials of Chimney Rock Mountains, Inc., Dr. L. B. Morse, president. John A. Gardner of Charlotte, who was awarded contract two weeks ago, notified the company that he would not be able to carry out the contract.

Total cost of the dam and power plant will be about \$700,000, it is said, based on contracts now let for all materials and labor. Mees & Mees of Charlotte are engineers for the development.

New Apartment House to Cost \$1,200,000.

Miami, Fla.—It is announced here that James D. O'Brien, president of the Miami Tourist Club, will build a three-story apartment house to cost \$1,200,000. The structure will be erected on grounds embracing an area of 13 acres, and will contain an auditorium, it is said, to seat 10,000.

Architects for Ashland's \$1,000,000 Hotel.

Ashland, Ky.—After an architectural competition, extending over a period of some months, the Chamber of Commerce of this city has selected Moosmiller & Johnson of Louisville, Ky., to prepare plans and specifications for the new \$1,000,000 hotel to be erected here. The building will be 11 stories, of brick and stone construction, and will contain 207 guest rooms with bath, tea rooms, ball room, coffee shop and other features. Ben Williamson is chairman of a special committee to handle details of construction.

\$1,500,000 Apartment House for Palm Beach.

Palm Beach, Fla.—At a cost of \$150,000, property on the lake front at Peruvian avenue in this city has been purchased by Seward W. Erich and John J. Hearn of New York, who plan to erect a \$1,500,000 apartment house. Purchase of the site was made through the agency of the Christenson Realty Co.; it is stated that the building will be completed for the opening of the 1925-26 season. The structure will contain three, four, five and six room apartments modernly equipped and an exclusive restaurant. Carrere & Hastings of New York are the architects; they will be associated with Addison Mizner of Palm Beach for the preparation of plans for the exterior, which will be of the Spanish type.

Mohair Production 85 Per Cent from South.

Mohair production in the United States last year was 10,043,000 pounds, as compared with 8,651,000 pounds in 1923 and 6,532,000 pounds in 1909, according to the Department of Agriculture.

Two Southern states, Texas and Missouri, produced in 1924 over 85 per cent of the country's total output.

Production in Texas alone was 8,471,000 pounds, compared with 7,100,000 pounds in 1923. In 1924 New Mexico produced 300,000 pounds, Arizona 500,000 pounds, California 180,000, Missouri 142,000 and Oregon 450,000 pounds.

Monthly Report on Steel Ingots.

Herewith is the monthly production of steel ingots from January, 1924, to February, 1925, as reported to the American Iron and Steel Institute by companies which made 94.84 per cent of the steel ingot production in 1923:

Months 1924	Open- hearth	Lessner	All other	Monthly production of all companies reporting	Calculated monthly production of all companies	No. of working days	Approx. daily production of all companies.	No. of working days	Approx. daily production of all companies.
Jan.	2,766,534	667,032	12,577	3,446,143	3,633,639	27	134,579	25	152,367
Feb.	2,902,641	695,905	14,085	3,612,631	3,809,185	26	141,075	26	141,075
March	3,249,783	706,801	15,280	3,971,844	4,187,942	26	161,233	26	128,213
April	2,575,788	573,381	12,356	3,161,525	3,333,535	26	128,213	27	97,313
May	2,060,896	425,099	6,648	2,492,643	2,628,261	26	82,259	25	82,259
June	1,637,660	310,070	2,622	1,950,352	2,056,466	26	71,901	26	71,901
July	1,525,912	241,880	5,162	1,772,954	1,869,416	26	97,750	26	97,750
August	2,042,820	361,781	5,759	2,410,360	2,541,501	26	108,269	27	115,239
Sept.	2,252,976	409,922	6,844	2,669,742	2,814,996	26	124,289	26	124,289
Oct.	2,505,403	438,468	7,030	2,950,901	3,111,452	27	135,833	26	135,833
Nov.	2,479,147	459,319	8,397	2,946,893	3,107,226	25	134,830	26	134,830
Dec.	2,810,404	546,506	11,641	3,368,551	3,551,825	26	134,609	312	117,453
Total	28,809,964	5,836,194	108,381	34,754,539	36,645,444	312			
1925									
Jan.	3,262,748	689,996	*11,960	*3,964,704	*4,180,413	27	*154,830		
Feb.	2,931,961	602,042	13,014	3,547,020	3,740,004	24	155,833		

*Revised.

THE IRON AND STEEL SITUATION

Business in Steel Better Than Expected.

Pittsburgh, March 16.—[Special.]—The steel situation is still a strong one, with latest reports showing a good volume of market activity and production well above normal. Conditions in steel are better today than it was expected a few weeks ago they would be at this time. It is a case of all the bad news having come out a few weeks ago, so that while there is not the immense amount of business the forecasts of last November and December predicted, there is better business than seemed likely in January, when there was a general reaction in business sentiment.

In nearly all commodity markets there has been complaint for weeks past of dullness, but the steel trade is turning out quite well, even though it has done its share of complaining. One of the complaints has been that it is not getting the advanced prices on various products it undertook late in January and early in February to make, but it is hard to get advanced prices in any commodity. Even as it is, however, prices in various steel lines are somewhat higher than on November 1, so the steel trade is not so badly off, and it is getting a very heavy tonnage, which reduces its unit cost and makes larger profits also, because there are more units.

The steel-consuming lines continue to do very well in the matter of operation and consumption of steel. There is no violent and high-pressure activity, but there is good reason to believe that the volume of steel consumption, on the whole, will run higher in the present half year than the average of the past two years.

The rate of steel mill operation has been scrutinized very closely right along, and has been given more attention than it deserved, for it is consumption, not production, that counts in the long run. Early in February it appeared that the rate of production was turning down, but only very slightly. This is confirmed by the official report of steel ingot production in February, which shows a February average rate two-thirds of 1 per cent above the January average rate. Production was a trifle heavier in the second half than the first half of January, and in February this was reversed. The decrease is only slight and March is going to show no more than a slight decline from the February rate. The quarter will average about an 89 per cent steel mill operation, against 68 per cent in the year 1924 and 80 per cent in 1923. If the second quarter averages 75 per cent, the half-year will stand at 82 per cent, which would be 11 per cent above the average of the past two years, and should be considered quite satisfactory. It would not be if consumption did not correspond, but with circumstances as they are, consumers are not going to conduct their business so as to have large stocks July 1. There is no occasion to carry more than very moderate stocks, as the mills can make steel whenever called upon and the railroads can move it expeditiously.

The Steel Corporation's unfilled tonnage report for February furnished a surprise in all quarters, there being an increase in unfilled obligations of 247,448 tons, much more than the latest predictions, while early predictions had been for a loss. The January gain had been 220,647 tons, and February, although a shorter month, improved on that.

The whole spirit of the market is that business must be done on a close margin or buyers will hold back. Profits must be made by economies and by quantity of production. Sales of steel would have been much lighter in the past few weeks if the attempted price advances had been insisted upon. If there had been less business in sight, the mills would probably have held the higher prices, as, while they would not be selling much, there would be a stimulus to specifying on old contracts. The fact that the market was

kept on a trading basis showed that there was much business to be secured, and that condition still prevails.

The case of Connellsburg furnace coke for the second quarter furnishes another illustration of the necessity of business being done on a close basis, and the difficulty in passing price advances at one step on to the next class of buyers. The coke operators made contracts for coke for the present quarter with a wage clause, and then advanced wages, whereby the settlement prices were 75 cents to \$1 above the prices written in the contracts. The furnaces had previously sold most of their iron and complained loudly, asserting the wage advance had been unnecessary and that some operators were panic stricken and the rest stampeded. They could not pass on the higher cost to pig iron buyers, because the pig iron buyers would not take hold. They refused to pay more than \$3.50 for second-quarter coke. The operators had to yield and there will be a return to the wage scale paid prior to the advance of last December. The bulk of the contracting has already been done.

Foundry pig iron remains at \$21, valley, to which it declined on the Standard Sanitary purchases of 20,000 tons for second quarter, reported a week ago. Basic, formerly at \$21.50, valley, is automatically down 50 cents, as it could not expect to bring more than foundry iron. Bessemer remains quotable at \$22.50, valley, but does not seem to be firm at the figure.

Call for Iron in Second Quarter.

Birmingham, Ala., March 16.—[Special.]—Sales of pig iron in quantity are reported in the South, but no verification is given out. On the other hand, the market is declared strong by furnace interests, who in maintaining the high level in quotations, \$22 per ton, No. 2 foundry, say that there is still considerable unfilled tonnage on hand and that the small lots being sold are adding slowly to the business on the books. Three deals are reported as having been consummated recently, and more than 30,000 tons of iron sold for second quarter of the year as a starter.

In the immediate district there is no indication of hesitation in the melt, the larger plants going steadily and requiring much iron. The transportation companies are complaining of lagging traffic out of the territory, which brings to light prominently the fact that practically all the pig iron being manufactured here, and the make is at its height, is being consumed in the home territory. One railroad official stated that the greatest distance now that iron is moving is to Chattanooga, 143 miles from Birmingham, and considered one of the closest of home territory consumers. In industrial circles the belief is that before many years all of the pig iron manufactured in this district will be needed in the home territory. Alabama-made pig iron is being shipped in a little quantity into the St. Louis and Chicago territories and some iron has been shipped to the Southeast and Southwest, but the home melt is increasing right along.

Not only is the melt of foundry iron showing increase every six months or so, but in basic iron also. The number of open-hearth furnaces of the district which melt basic iron will be added to in the next 60 days by the starting up of the new steel plant of the Tennessee Coal, Iron & Railroad Co. with four open-hearth furnaces. The melt of foundry is being increased by the building of new pipe foundries and other shops and the addition to the old shops and foundries here.

The waiting game on the part of the consumers has been steadfast, if it is a waiting game, but not any more determined than that being carried out by the furnace interests,

who are holding to the high price level, \$22 per ton. There is still indication that there will be need for a large quantity of iron for the second quarter of the year.

Features of the past week in the industrial Birmingham district included the starting up of the battery of 25 ovens at the plant of the Alabama By-Products Corporation at Tarrant City, just outside the city limits of Birmingham, making 100 ovens in all at this place, and the shipment of 1500 tons of steel in various shapes, small rail, wire, nails, etc., down the Warrior River, part of the shipment to go to export, South Africa, and the other part for domestic use through distribution at New Orleans. The export business is being handled through the port of Mobile. Six barges were used in taking the steel down the river.

Progress is reported on the several big projects in the iron and steel operations of this district, with expectations that before the summer is over all of them will be in full operation. These additions to the district's activities will bring more attention to this section.

The coal market in Alabama shows little change, the steam coal demand not being up to expectations. With warmer weather setting in, the domestic coal market is making no upward move. The production in Alabama is around 375,000 tons the week, according to the car loadings.

The coke market continues fairly good, with demand for all of the product now being turned out. Production is increased with 25 additional ovens at the Alabama By-Products Corporation. The quotations remain steady around \$5 per ton, beehive and by-product foundry coke.

The scrap iron and steel market is very weak and quotations are uncertain. The shrinkage in the quotations has brought about little, if any, new business. Consumers of old material are holding off in their purchasing for a while, evidently watching the trend of the pig iron market. Some old material is moving, however, on old contracts, and the belief is that there never will be a time when more or less scrap will not be in demand. Reports are current again that the Steel Corporation subsidiaries of this district will be in the market for scrap. Dealers have not been advised as yet, but are anxiously waiting that time.

Quotations for pig iron and iron and steel scrap in the Birmingham district are as follows:

PIG IRON.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$21.50 to \$22.00; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$22.00 to \$22.50; iron of 3.75 to 3.25 per cent silicon, \$22.50 to \$23.00; iron of 3.25 to 3.75 per cent silicon, \$23.00 to \$23.50; iron of 3.75 to 4.25 per cent silicon, \$23.50 to \$24.00; charcoal iron, f. o. b. furnace, \$30.00.

OLD MATERIAL.

Old steel axles	\$18.00 to \$19.00
Old iron axles	19.00 to 20.00
Old steel rails	14.00 to 15.00
Heavy melting steel	14.00 to 15.00
No. 1 cast	17.00 to 17.50
Stove plate	14.50 to 15.00
No. 1 railroad wrought	13.00 to 14.00
Old car wheels	16.00 to 17.00
Old tramcar wheels	17.00 to 17.50
Machine shop turnings	8.00 to 9.00
Cast-iron borings	8.00 to 9.00
Cast-iron borings (chem.)	15.50 to 16.00

The Heavy Freight Traffic on Railroads.

Loadings of revenue freight on the railroads during the first nine weeks of this year made a record in comparison with any similar period, the total number of cars so laden being 8,070,319, an increase of 144,230 cars, or 1.8 per cent, as compared with the same period of last year, according to the car service division of the American Railway Association. Loadings for the week ended February 28 totaled 862,910 cars, or something more than 62,000 cars less than the week before, this decrease being due to the observance of Washington's Birthday anniversary. The Southern and the Southwestern railroad districts were the only districts to show increases as compared with the same week of last year.

RAILROADS

ROCK ISLAND GETS THE "COTTON BELT." Edwin Gould Sells Control of St. Louis Southwestern, Held for Many Years.

Control of the St. Louis Southwestern Railway, or Cotton Belt Route, has been acquired by the Chicago, Rock Island & Pacific Railway Co., according to announcement made last week in New York, and Charles Hayden, chairman of the Rock Island; J. E. Gorman, its president; Marcellus L. Bell, vice-president and general counsel, together with N. L. Amster, one of the directors, have been elected to the directorate of the acquired system.

The St. Louis Southwestern has 1776 miles of lines, and this total, added to the total of the Rock Island system, which is 8123 miles, makes an aggregate of 9899 miles under Rock Island control. The acquired road runs trains between St. Louis, Memphis, Shreveport, Texarkana, Waco and other points in Texas, Arkansas, Louisiana and Missouri, with many branches.

The dominant interest bought by the Rock Island in the St. Louis Southwestern is that of Edwin Gould, chairman of that system, who has been at the head of the property since the autumn of 1898, when he became president. The present president, however, is Daniel Upthegrove, and Chairman Hayden of the Rock Island is quoted as stating that his services will be retained as chief executive of the acquired property. It is the stock obtained from Mr. Gould, together with other shares owned by interests friendly to the Rock Island, which gives the latter its control. Mr. Gould, however, is quoted as saying that he still continues to hold—and that he hopes those who follow him will hold—a very considerable interest in the securities of the St. Louis Southwestern Railway, and he will continue to have a deep personal interest in the success of the road, although he will be relieved of official duties.

Mr. Hayden is further reported as saying that the Rock Island does not contemplate a merger of the two properties at this time, although the acquired control is in accordance to what his company understands to be the general policy of Congress and the Interstate Commerce Commission relative to railroad consolidations.

Mr. Gould's retirement from active participation in railroad management marks the end of the association of the name of the Gould family with Western lines.

Southern Pacific Wants Texas-Mexican Railroad.

Austin, Texas, March 16—[Special.]—W. B. Scott, president of the Southern Pacific's lines in Texas and Louisiana, has confirmed the report that the company is negotiating to purchase the Texas-Mexican Railroad, between Corpus Christi and Laredo, 161 miles. It connects with the San Antonio & Aransas Pass at Corpus Christi and Robstown and Alice, and with the International-Great Northern at Laredo. The Texas-Mexican was formerly operated as a part of the National Railways of Mexico and 51 per cent of its stock is said to be owned by the Mexican Government. Mr. Scott said that the transaction has progressed to the point where application for taking over the line and merging it with the Southern Pacific would soon be filed with the Interstate Commerce Commission.

Traveling Freight Agent Appointed.

H. G. Jones has been appointed traveling freight agent for the Seaboard Air Line Railway at Atlanta, Ga., succeeding T. C. McDowell, promoted.

New Equipment, Etc.

Atlantic Coast Line, which has just ordered 20 Pacific type and 15 Sante Fe type locomotives from the Baldwin Locomotive Works, is reported in the market for 500 box cars of 40 tons capacity.

Chicago, Rock Island & Pacific Railway has ordered 10 Santa Fe type locomotives from the American Locomotive Co. and 5 baggage and mail cars from the Standard Steel Car Co.

Sloss-Sheffield Steel & Iron Co. has, it is reported, ordered 2 Consolidation type locomotives from the Baldwin Locomotive Works. It was previously reported from Birmingham that these engines would be built by the American Locomotive Co.

Chicago, Burlington & Quincy Railroad has ordered 13 Mountain type locomotives from the Baldwin Locomotive Works and 500 mill type gondola cars from the Western Steel Car & Foundry Co.

Central of Georgia Railway has, it is reported, ordered 5 Mountain type locomotives from the American Locomotive Co.

Southern Pacific Railway will build 18 Mountain type locomotives in its own shops. This system is also reported in the market for 3400 cars of 50 tons capacity, including 2000 single-sheathed box cars, 1000 drop-bottom gondola cars, 200 single-sheathed automobile cars and 200 oil tank cars.

Winston-Salem Southbound Railway is reported to have ordered 2 large Mikado type locomotives from the Baldwin Locomotive Works.

Tidal Oil Co., Tulsa, Okla., is reported in the market for 60 tank cars.

Wichita Falls & Southern Railway has ordered 2 Consolidation type locomotives from the Baldwin Works.

New York Central Railroad is reported to have ordered 500 all-steel high-side gondola cars from the American Car & Foundry Co. The same system is reported in the market for 100 air dump cars of 50 tons capacity, 500 steel under-frame refrigerator cars of 35 tons capacity, 300 or 400 flat-car bodies and 400 or 500 steel coal-car bodies, the latter of 70 tons capacity.

Richmond, Fredericksburg & Potomac Railroad is reported in the market for 6 passenger cars.

Structural steel orders for bridges are reported as follows: Baltimore & Ohio Railroad, 1000 tons from the American Bridge Co.; Illinois Central Railroad, 1500 tons from the Continental Bridge Co.; Atchison, Topeka & Santa Fe Railway, 400 tons from the Kansas City Structural Steel Co.

The Department of Commerce, Washington, D. C., announces that shipments of railroad locomotives during February from the principal builders totaled 85, as compared with 90 in January. In February of last year 99 locomotives were shipped from the same establishments. Unfilled orders March 1 totaled 397 locomotives, of which 343 were to fill domestic orders and 54 foreign.

Will Spend \$134,500 for Sidings.

The Richmond, Fredericksburg & Potomac Railway will build new sidings at Doswell, Arkendale and Featherstone, Va., and will extend the present sidings at Massaponax, KN Tower and WH Tower, respectively, the first three jobs to cost about \$71,000 and the last three about \$63,500. The work will be done under the supervision of E. M. Hastings, chief engineer, at Richmond, Va.

\$500,000 Car and Equipment Plant.

Houston, Texas, March 14—[Special.]—Announcement is made by the Southern Car & Foundry Co., Jackson, Tenn., that it will construct a branch plant here at a cost of \$500,000. Railroad cars and equipment will be manufactured.

CHARTER FOR 200-MILE TEXAS LINE.

Burlington System to Build Extensively Into the South Plains Country.

Charter has been filed at Austin, Texas, for the Fort Worth & Denver South Plains Railway Co. to build lines from Estelline, which is on the Fort Worth & Denver City Railway in Hall county, Texas, through Hall, Briscoe, Swisher, Castro, Hale, Crosby, Floyd and Lubbock counties. This would permit the building of a total of about 200 miles of railroad as feeders to the Fort Worth & Denver City line, which is in the Colorado & Southern system. It has long been proposed to construct a railroad from Dimmitt, the county-seat of Castro county, eastward through Swisher and Briscoe counties, touching Tulia and Silverton, the respective county-seats, and connecting with the main line at Estelline, or near there, and the new charter will probably result in realization of this plan.

Furthermore, it has been planned from time to time to build a line northeast from Lubbock to the Fort Worth & Denver City Railway, and this, too, can now be built through Lubbock, Floyd, Crosby and Hale counties, touching either Floydada or Lockney, and perhaps Crosbyton.

The Chicago, Burlington & Quincy Railroad Co. is behind the move, and the proposed construction will make it an active competitor with the Santa Fe system in Texas, which already has lines through the South Plains country that is fast developing.

The incorporators of the new company are Hale Holden, president of the Burlington, and C. G. Burnham, executive vice-president of that system; F. E. Clarity, vice-president and general manager of the Fort Worth & Denver City Railway; K. M. Van Zandt, T. B. Yarbrough, J. E. Willis, John A. Hulen and J. H. Barwise, all of whom are directors of the latter railroad. Mr. Barwise is general solicitor of the Colorado & Southern lines at Fort Worth, Texas, and Mr. Hulen is traffic manager of the Fort Worth & Denver City Railway also at Fort Worth.

As a result of this charter a large amount of railroad construction may be anticipated in the South Plains section of Texas by the Burlington interests, and the Santa Fe, which has also lately announced some building plans, will probably construct more new line to desirable traffic points.

Extension of 100 Miles to Cost \$2,600,000.

The Waco, Beaumont, Trinity & Sabine Railway Co., operating lines in Texas from Weldon to Livingston, 47½ miles, and from Trinity to Colmesneil, 66½ miles, has been authorized by the Interstate Commerce Commission to build an extension from Livingston to Beaumont, Texas, 100 miles, according to its previously announced plans. The estimated cost, if the entire line is built, is about \$2,600,000, but there are certain parts of it which may not be constructed if the company is able to obtain trackage rights from other railroads. Construction must begin before the end of the present calendar year and must be completed before the end of next year. R. C. Duff of Houston, Texas, is president.

The Commission denied the company's application for permission to build a 2-mile line from Beaumont to West Port Arthur or a 12-mile line from Port Neches to Port Arthur.

Engineering Appointments.

P. R. Boese has been appointed principal assistant engineer of the Atlantic Coast Line, with office at Wilmington, N. C., succeeding L. L. Sparrow, who has been appointed engineer of statistics.

Sloss-Sheffield Line a Home-Built Road.

Birmingham, Ala., March 14—[Special.]—In building and equipping its railroad, now being constructed from the Flat Top coal fields in the western part of this county to the blast furnaces and by-product coking plant at North Birmingham, the Sloss-Sheffield Steel & Iron Co. will purchase in Birmingham everything needed except the two locomotives, which will be built by the American Locomotive Co. The Tennessee Coal, Iron & Railroad Co. will furnish the steel rails, the accessories, such as tie plates, bolts, rivets, etc., and also 110 coal cars. The crossties are being purchased here, the contractors are local people and the labor was gathered in and around Birmingham. As announced a few weeks ago, the Sloss-Sheffield Steel & Iron Co. will build four miles of line and will sub-lease 17 miles of track from the Louisville & Nashville Railroad. It is believed that the saving on freight on coal will compensate the Sloss-Sheffield Steel & Iron Co. within a few years sufficiently to refund the costs of construction.

Southern Lines Earn Highest Rate.

The gross operating revenues of the Class 1 railroads, having a total line length of 237,128 miles, aggregated \$484,773,600 during the month of January this year, according to a compilation made by the Bureau of Railway Economics, Washington, D. C., from returns filed by the carriers with the Interstate Commerce Commission. This total was an increase of \$15,787,400, or 3.4 per cent, as compared with the same month of last year. Operating expenses totaled \$383,734,800, a decrease of \$1,357,200, or .4 of 1 per cent, with the same comparison, and the net operating income for the month was \$65,842,000, an increase of \$14,454,800 as compared with January a year ago. Net operating income is the amount left after paying operating expenses, taxes and rentals of equipment but before interest and other fixed charges are paid.

The South made the highest return of any of the railroad districts for January, being at the annual rate of return of 5.38 per cent on property investment. The rate of return in the Eastern district was 5.01 per cent and in the Western 4.13 per cent; the average for the whole country was 4.71 per cent.

Plans for Railroad Building in Texas.

Roma, Texas, March 14—[Special.]—An inspection of the route of the proposed extension of the Rio Grande Railroad from Brownsville to Roma, and thence north to a connection with the San Antonio, Uvalde & Gulf Railroad at Fowlerton, has just been made by W. T. Eldridge of Sugarland, Texas, who owns outright the Rio Grande Railroad and 48 per cent of the stock of the San Antonio, Uvalde & Gulf. The extension will traverse the lower Rio Grande valley for about 125 miles, and will then turn north, passing through the oil fields of Mirando and Charco Rendado. It will be about 250 miles long. The Rio Grande Railroad, which is being converted from narrow to standard gauge, runs between Brownsville and the prospective deep-water port of Point Isabel, 22 miles.

In this connection it is important to note a report that the Atchison, Topeka & Santa Fe Railway is an active bidder against the Missouri-Kansas-Texas Railway for the purchase of the San Antonio, Uvalde & Gulf Railroad, which, it is understood, is on the market. It is asserted that the Santa Fe system will have to acquire the San Antonio, Uvalde & Gulf or else construct several hundred miles of new lines in southwest Texas in order to protect important sources of traffic, and even should it purchase the road considerable new mileage would have to be built to connect it up.

Good Roads and Streets

Florida Road District Votes \$1,000,000.

St. Petersburg, Fla.—A bond issue of \$1,000,000 has been voted by special road district No. 11 in Pinellas county for the construction of roads in the district. All paving will be of asphalt dip, 16 feet wide.

Bids Invited for Sampit River Bridge.

Georgetown, S. C.—Bids will be received by the South Carolina Highway Department until March 31, at the office of the Georgetown County Highway Commission, for the construction of the Sampit River bridge and approaches at Georgetown. Work will involve the construction of a 596-foot reinforced concrete, steel and creosoted timber bridge and 2279 feet of earth approaches.

South Carolina Asks Bids on 30 Miles.

Walterboro, S. C.—Bids will be received by the South Carolina State Highway Department, at the office of the Colleton County Road Commission at Walterboro, until March 24 for the construction of approximately 30 miles of road. These embrace 11.749 miles of state route No. 64 and 18.14 miles of state routes Nos. 321 and 32, all in Colleton county.

160 Miles of Roads and 20 Bridges.

Jefferson City, Mo.—Bids will be opened by the Missouri State Highway Department at its office in this city on March 28 for more than 160 miles of road work and 20 bridge projects. Road construction will involve approximately 55 miles of gravel, 30 miles of concrete, 38 miles of earth work, 35 miles of graded earth and 3 miles of concrete and gravel. The proposed bridges, for the most part, will be of concrete and steel.

Votes \$2,650,000 for Key West Road.

Key West, Fla.—Monroe county has voted a bond issue of \$2,650,000 for building the proposed road from Key West to the mainland. Of a total of 865 votes only two votes were cast against the issue. Tentative plans for the expenditure of the bond issue call for the completion of the Key West to Key Largo road to cost \$2,000,000; ocean-front boulevard and seawall around Key West, \$500,000; Tamiami Trail, \$100,000, and Cape Sable road, \$50,000.

Bids on 16 Miles of Concrete.

Bids for the construction of eight road projects, aggregating nearly 16 miles, will be received until March 24 by the Maryland State Roads Commission, Baltimore. Construction will be of concrete, embracing 2.5 miles in Anne Arundel county, one mile in Harford, 2.5 miles in Queen Anne's, 3.5 miles in Caroline, one mile in Somerset, 1.5 miles in Worcester, 1.69 miles in Wicomico and 2 miles in Frederick. Plans, specifications and proposal forms may be obtained from the commission.

Comanche county, F. P. Aycock, clerk, Lawton, Okla., has voted a bond issue of \$400,000 for the construction of roads.

Pinellas County Commissioners, Clearwater, Fla., have sold \$520,000 of bonds of special road and bridge district No. 8 to Caldwell & Co., Nashville, Tenn.

TEXTILE

New Mill to Make Novelty Fabrics.

Durham, N. C.—A proposition submitted by E. S. Yarborough of Henderson, N. C., for the organization of a \$150,000 mill at Durham to manufacture novelty fabrics is receiving the active support of the local Chamber of Commerce, and it is announced that sufficient stock has been sold to assure the new industry. Details for temporary and permanent organization of the mill are being handled by E. T. Rollins, chairman of the new industries committee of the Chamber.

Contract for Shelby Cloth Mill.

Shelby, N. C.—Contract has been awarded by the Shelby Cloth Mill, Max Gardner, president, to Guion & Withers, Gastonia, N. C., for the erection of its mill buildings. The main structure will be 192 by 112 feet, of brick and steel construction, with monitor. The plant will represent a cost of approximately \$250,000 and is expected to be ready for operation by September. Its product will be fancy dress goods from cotton and silk yarns. Forty tenement houses with sewer, lighting and water facilities will be erected for employes.

Textile Directory Shows South's Growth.

Washington, March 12.—The 1925 textile directory of the Southern Railway system, just issued, shows that, notwithstanding the fact that 1924 was a year of general depression in the textile industry throughout the world, the remarkable growth in the South again emphasizes the advantages of this territory for textile manufacturing.

This directory lists 1015 plants operating 13,006,246 spindles, 257,445 looms and 43,473 knitting machines located at points served by Southern Railway lines at the end of 1924.

In all of the Southern states there are now 17,359,420 spindles, or 45.82 per cent of the total machinery, engaged in the spinning of cotton in the United States. There was a net increase of 612,374 spindles in the South in 1924 and a net decrease of 362,545 spindles in the states outside of the South.

The remarkable growth of the textile industry in the South is shown in a graphic way by diagrams, one of which shows that while the South had only a very small proportion (6.27 per cent) of the total spindles in the United States in 1880, there has been a steady increase from that year until on January 1, 1925, the South had 45.82 per cent of the total. In states outside of the South the number of spindles increased slowly until the maximum of 20,981,175 was reached in 1922. Since that year there has been a decrease of 435,058 in those states, as compared with an increase in the South in the same period of 1,393,039.

Cotton Movement August 1 to March 13.

Exports of cotton from August 1 to March 13 amounted to 6,581,393 bales, compared with 4,504,931 bales a year ago, reports the Agricultural Department. Exports for the week ending March 13 amounted to 210,705 bales, compared with 219,520 bales the previous week and 81,329 bales one year ago.

Cotton movement	1925 Bales	1924 Bales
Port receipts	8,135,043	5,803,528
Port stocks	1,156,998	685,279
Interior receipts	9,422,198	6,729,504
Interior stocks	969,348	696,682
Into sight	13,072,754	9,946,519
Northern spinners' takings.....	1,493,843	1,470,114
Southern spinners' takings.....	3,171,857	3,024,679
World's visible supply of American cotton..	4,131,712	2,526,961

New Plant of Gloria Textile Corporation at Johnson City, Tenn.

By CHARLES F. MCGRATH, Lockwood, Greene & Co., Charlotte, and

JOHN WOOD, Sec., Chamber of Commerce, Johnson City.

Johnson City's cherished ambition is now a reality. The desire for a textile mill has been realized. The Gloria Mill is ready for operation, and "Made in Johnson City" will be the history of a line of beautiful and lasting dress goods. "Boydroy" will be the name of the Gloria product, the term being made up of "Boyd" for the Boyds of Williams-town, Mass., and "corduroy" the kind of fabric to be woven.

Beginning with a visit of Messrs. John S. and Thomas F. Boyd of Williamstown, with J. Norman Pease of Lockwood, Greene & Co., in December, 1923, at which time careful investigation of Johnson City's advantages was made, work of planning, contracting and construction has gone forward with little interruption. The decision to locate in Johnson City was announced by John S. Boyd at Charlotte in January, 1924, when to the secretary of the Johnson City Chamber of Commerce he stated that Johnson City, of all the places he had visited in the South, appeared to be best suited for carrying out the plans he had in mind. He at once proceeded with the organization of the Gloria Textile Corporation, of which John S. Boyd of the John S. Boyd Company, Williams-town, is president, and Albert E. Stirn of L. & E. Stirn of New York is secretary and treasurer. The resident manager of the mill is Thomas F. Boyd, who has already moved to Johnson City with his family.

Arrangements having been completed with the Chamber of Commerce for local interests to provide a site and construct the mill building, together with contract for lease of the property to the Gloria Company, with option to buy, the Johnson City Industrial Corporation was formed with Sam R. Sells, president. Plans call for the addition of a spinning mill and a finishing plant and an extension to the weave mill later on. A site of 12 acres provides room for these developments, and the present building was built to facilitate expansion.

The Gloria Mill is located on the south side of the Southern Railway, just off the Jonesboro pike and opposite the National Sanatorium. It runs back to the Clinchfield Railroad and is bisected by a stream having a daily flow of about 1,500,000 gallons, fed by three clear-water springs.

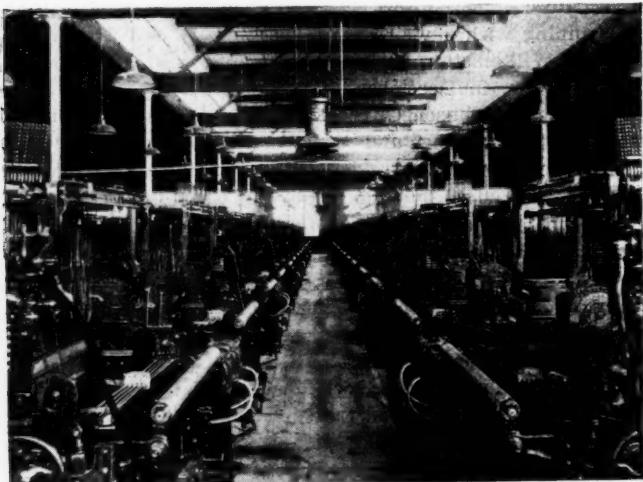
The building, designed and erected under the supervision of Lockwood, Greene & Co., with C. F. McGrath in charge as local representative, contains almost exactly one acre of floor space. It is of standard slow-burning construction, steel columns and sash, wood floors and beams. It has a tar and gravel roof, with one inch of cork insulation to prevent condensation and dripping of water from the ceiling. The roof is provided with two monitors running the full length of building, insuring excellent light throughout the plant. The building has mixed birch and maple top floors, and is equipped with modern toilets and locker rooms for both men and women. From among a number of leading construction firms bidding on the mill, Messrs. Beeler & Co., local contractors, were chosen.

The building is heated through branch coils on walls and ceilings. The boiler room is adjacent to the main building and contains a Kewanee 18-K fire tube boiler with working pressure of 50 pounds. This pressure is reduced where it enters the building to four pounds, and the return is handled by an electrically driven Jennings Hytor vacuum pump, operating automatically from four inches to twelve inches of vacuum. The heating equipment was installed by Charles W. Christian, Charlotte, N. C.

Air conditioning will be taken care of by a Parke-Cramer

system with high-duty heads and automatic control, and about 93 per cent humidity will be maintained for the normal working condition.

The machinery equipment is of the latest and most improved design. It consists of 200 Draper 50-inch automatic looms, equipped with 20 and 25 harness dobie-heads. Provision has been made for doubling the installation of looms at a later date. Individual motor drive is provided for these looms. General Electric 1-horsepower motors are used, with 550-volt, 3-phase, 60-cycle current furnished by the Tennessee Eastern Electric Company. Twenty-four Universal filling winders with bunch builders have been installed. These



BEAM ALLEY UNDER MONITOR.

are also driven by individual motors. Draper warpers will take the warp yarn from tubes and beam for a Saco-Lowell slasher located in a room adjacent to that containing the warpers. No finishing will be done at this plant at present. The grey goods will be shipped to the Williamstown (Mass.) finishing plant for dyeing and other processing. Cloth-room equipment will consist of burlers, inspecting and folding machines made by the Curtis & Marble Company. Toledo yardage and platform scales and Logemann toggle-joint press complete the equipment of this room.

All power and light wiring is in conduits, the work having been done by Michael & Bivens of Gastonia, N. C.

The plant, with its present machinery, is so designed as to permit of ready switching to the manufacture of velvets and fustians.

In order to provide necessary fire protection and service water, approximately 5000 feet of 10-inch main was laid

from the terminus of the city main near the National Sanitorium to the plant. Again a local firm was the successful bidder, this work being done by A. H. Abernethy. Inside fire protection is of the automatic sprinkler type, installed by the Globe Automatic Sprinkler Co., with hydrants provided for outside protection. A 75,000-gallon steel tank on a 100-foot tower is being erected by the Chicago Bridge & Iron Co. This provides two sources of supply for fire protection, with a hydrostatic pressure of 75 pounds to the square inch on 10-inch main at the building.

Spinning Company May Move to Galveston.

Galveston, Texas.—Negotiations are being carried on by the local Chamber of Commerce with the Nobska Spinning Co. of Taunton, Mass., for moving the company's plant to Galveston. The Taunton mill is equipped with 15,000 ring spindles, producing carded yarns, and it is understood that subscriptions of more than \$1,000,000 have been raised in Galveston for establishing the new enterprise.

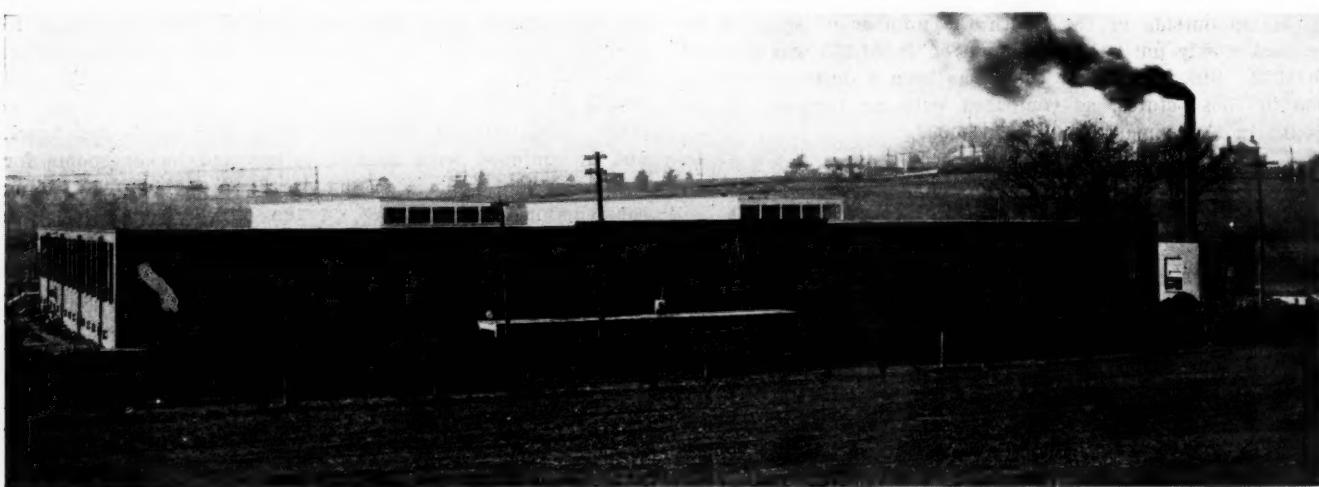
Grantville Hosiery Mills to Build Dwellings.

Grantville, Ga.—A contract has been awarded by the Grantville Hosiery Mills to the La Grange Lumber & Supply Co., La Grange, Ga., for the erection of 15 dwellings. The structures will be of three rooms each, of frame construction with shingle roofs and will cost about \$36,000.

Aluminum Production in 1924.

New aluminum produced in the United States in 1924 had a value of \$37,607,000, which is an increase of almost one-third over the value of the output in 1923, according to the Geological Survey. Domestic demand for aluminum, much of it for automobile parts, was somewhat less in 1924 than in 1923, as the production of automobiles was smaller and some manufacturers are now using pressed steel instead of the higher priced aluminum.

Imports of aluminum in 1924 were nearly one-third less than in 1923, whereas the exports in 1924 increased 25 per cent over those in 1923. The total imports in 1924 amounted to 30,588,525 pounds, which comprised 29,394,155 pounds of crude metal from scrap and alloy, 790,130 pounds of manufactured plates, sheets and bars, and 404,240 pounds of hollow ware. The total exports amounted to 13,126,752 pounds, which comprised 3,356,786 pounds of ingot, scrap and alloys; 2,986,726 pounds of plate, sheets, bars, strips and rods; 3,574,427 pounds of tubes, moldings, castings and other shapes; 1,026,593 pounds of table, kitchen and hospital utensils, and 2,182,220 pounds of all other manufactures.



GENERAL VIEW OF GLORIA TEXTILE MILLS AT JOHNSON CITY.

LUMBER AND BUILDING MATERIALS

Continued Activity in Lumber Industry.

Washington, March 12.—Reports from 374 of the leading softwood lumber mills of the country to the National Lumber Manufacturers' Association show that the lumber industry maintained during the week ending March 7 the decided advance established during the preceding week. Although there is an actual reported increase in new business and production, the fact that there is, on the other hand, a decrease in shipments and that the number of reporting mills is larger for the past week, seems to justify the conclusion that there is little change in the general volume of business. As compared with the corresponding week of last year, there is reported, however, a marked increase in new business, some increase in shipments and a small decrease in production.

The unfilled orders of 251 Southern Pine and West Coast mills at the end of last week amounted to 653,184,857 feet, as against 654,667,493 feet for 252 mills the previous week. The 132 identical Southern Pine mills in this group showed unfilled orders of 252,338,379 feet last week, as against 263,176,002 for the same number of mills the week before. For 119 West Coast mills the unfilled orders were 400,846,478 feet, as against 391,491,491 feet for 120 mills a week earlier.

Altogether the 374 comparably reporting mills had shipments 98 per cent and orders 94 per cent of actual production. For the Southern Pine mills these percentages were, respectively, 96 and 82, and for the West Coast mills 102 and 109.

Of the comparably reporting mills, 347 (having a normal production for the week of 221,048,984 feet) reported production 100 per cent of normal, shipments 100 per cent and orders 96 per cent.

The following table compares the national lumber movement as reflected by the reporting mills of seven regional associations for the three weeks indicated:

	Past week	Corresponding week 1924	Preceding week 1925 (revised)
Mills	374	389	355
Production	236,318,956	238,429,138	228,638,224
Shipments	231,974,361	229,763,634	242,159,297
Orders	222,183,742	206,500,208	217,079,120

The following revised figures compare the lumber move-

ment for the first 10 weeks of 1925 with the same period of 1924:

	Production	Shipments	Orders
1925	2,179,624,611	2,198,157,798	2,089,500,718
1924	2,211,558,619	2,307,156,508	2,302,467,847
1925 Decrease	31,934,008	108,998,710	212,967,129

The Southern Pine Association reports from New Orleans that for the 132 reporting mills shipments were 3.66 per cent below production, while orders were 17.64 per cent below production and 14.51 per cent below shipments for last week. Of 89 mills reporting running time, 79 operated full time, including 14 on overtime, 9 of the latter on double shift. Five mills were shut down and the rest operated from one to five days.

The North Carolina Pine Association of Norfolk, Va., reports good gains in all three factors, with 10 more mills reporting than for the previous week.

New Geologic and Topographic Report in West Virginia.

A new publication has just been issued by the West Virginia Geological Survey, Morgantown, W. Va., giving a detailed report on Mineral and Grant counties, West Virginia, the report being made by David B. Reger, assisted by other members of the survey staff. It is a large volume of 866 pages, plus 24 pages of introductory matter, and illustrated with 43 halftone plates and 31 zinc etchings. Accompanying the report is a separate case of topographic and geologic maps, each county being mapped separately as to topography and geology.

There has also been issued by the Survey a new topographic map of Ohio, Brooke and Hancock counties, West Virginia, which form the upper part of the "panhandle" of the state, from Wheeling northward, this map being very complete in detail, showing roads, streams, towns, villages, etc. A geologic map of this area is also to be published in several months. Copies of the report are sold by the Survey at \$3.25 each complete, but extra copies of the topographic maps cost 50 cents and of geologic maps 75 cents, except in the case of the map of the three counties named the topographic map is 75 cents. I. C. White is State Geologist.

LUMBER MOVEMENT FOR TEN WEEKS, AND FOR THE WEEK ENDING MARCH 7.

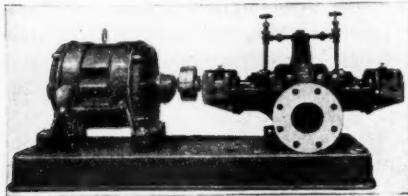
	Production		Shipments		Orders	
	1925	1924	1925	1924	1925	1924
Southern Pine Association:						
Total	733,025,505	720,321,484	689,354,440	738,690,475	690,742,020	710,623,142
Week (132 mills)	77,534,506	75,668,263	74,695,602	68,944,312	63,857,979	60,136,634
West Coast Lumbermen's Association:						
Total	955,315,290	1,001,655,003	958,647,955	983,450,140	905,100,104	955,386,248
Week (119 mills)	99,837,520	105,386,319	102,086,224	99,353,222	109,006,140	91,205,366
Western Pine Manufacturers' Ass'n:						
Total	184,056,000	205,334,000	261,009,000	298,475,000	235,321,000	330,788,000
Week (33 mills)	25,191,000	28,390,000	26,041,000	29,478,000	26,145,000	30,975,000
California Redwood Association:						
Total	80,756,000	83,270,000	70,185,000	74,906,000	70,159,000	77,225,000
Week (15 mills)	8,130,000	9,055,000	6,684,000	9,042,000	5,933,000	7,513,000
North Carolina Pine Association:						
Total	73,736,216	71,683,332	75,714,103	74,678,093	65,044,594	77,238,457
Week (48 mills)	10,281,730	8,364,556	10,670,035	7,983,000	8,119,623	4,297,208
Northern Hemlock and Hardwood:						
(Softwood) total	30,875,000	16,740,000	24,581,000	20,681,000	18,674,000	19,427,000
Week (19 mills)	2,608,000	726,000	2,017,000	1,403,000	1,542,000	1,327,000
Northern Pine Manufacturers' Ass'n:						
Total	59,907,600	65,020,800	81,017,300	83,990,800	76,054,000	93,164,000
Week (8 mills)	7,053,200	6,566,000	7,041,500	10,754,100	5,306,000	8,155,000
General total for 10 weeks	2,117,671,611	2,164,024,619	2,160,508,798	2,274,871,508	2,061,094,718	2,263,851,847
Northern Hemlock and Hardwood:						
(Hardwood) (10 weeks)	61,953,000	47,534,000	37,649,000	32,285,000	28,406,000	38,616,000
California White and Sugar Pine:						
Total	60,700,000*	64,005,000	109,831,000	137,904,000	124,592,000	10,733,000
Week (11 mills)	7,211,000	5,936,000	9,778,000	10,076,000	9,651,000	10,733,000
General total for week	236,318,956	238,429,138	231,974,361	229,763,634	222,183,742	206,500,208

*Revised figures not included in general totals. Represents about 76 per cent total production California pine region.

MECHANICAL

New Small Centrifugal Pumps.

A new series of centrifugal pumps of small size which supplements the line of larger pumps that they have been manufacturing for 12 years is being put on the market by the Wilson-Snyder Manufacturing Co., Pittsburgh, Pa., and they have been developed to operate with Westinghouse motors at their standard speeds of 1150 and 1750 revolutions per minute for both direct current and alternating current.



PUMP WITH MOTOR ATTACHED.

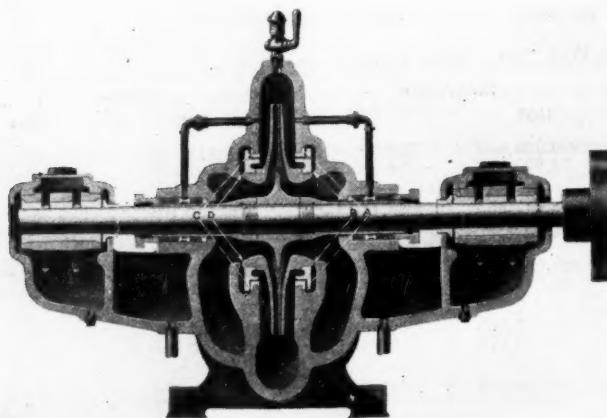
usually experienced with small centrifugal pumps has been eliminated by the simplicity of design and the ruggedness of construction, proof of which is given by the fact that the pumps during testing were frequently run out of alignment at very high speeds and with packing excessively tight. Even under these severe conditions the pumps functioned well and were not adversely affected.

Complication of design has been avoided, which permits emergency repairs to be made in a machine shop. It is recommended, however, that replacement parts be obtained from the manufacturer.

Centrifugal Pump Without End Thrust.

A line of double-suction centrifugal pumps, in which a very effective means of automatically neutralizing end thrust is incorporated, has been recently developed by the Earle Gear & Machine Co., Philadelphia, Pa., and apropos of this the company says:

"Theoretically, a double-suction pump, if properly designed, has no end thrust but it is well known that end thrust, or



SECTIONAL VIEW OF PUMP.

unbalanced pressure on the sides of the impeller, is liable to result, because it is impossible to obtain absolutely accurate castings for the pump casing or the impeller, and very small and apparently insignificant variations in the shape, smoothness or size of the casing or impeller water spaces give rise to quite large differences of pressure on the sides of the impeller."

The unbalanced end thrust is eliminated in this device, used

exclusively in these pumps and shown here in a section view of a Type B, DSV pump, because if the thrust is towards the reader's right hand the radial seat at B will tend to close, while the radial seat at A is opened, building up a pressure on the total area of the right side of the impeller. While this occurs the radial seat at C has closed and the radial seat at D has opened, placing a suction or reduced pressure on the area of the side of the impeller from C to the shaft. Hence, the area on the right side of the impeller, subject to high pressure, is greater than the area of the left side of the impeller from C to the shaft; the pump rotor will tend to move slightly to the left until it reaches a point at which the total pressure will be the same on both sides of the impeller and true hydraulic balance is obtained. An opposite cycle of events takes place if the original thrust tends towards the reader's left hand.

Pumps of this type are so designed that high efficiency and long life will be theirs. Data furnished by the company give complete specifications.

American Plan Open Shop Conference.

Kansas City, Mo.—Upon the invitation of the Chamber of Commerce of this city, the American Plan Open-Shop Conference will be held on April 14 and 15 at the Kansas City Athletic Club, which has convenient rooms for holding conferences and ample accommodations for housing guests. On April 15 conferees will be guests of the Employers' Association, Kansas City, of which H. H. Anderson is secretary and chairman of the invitation committee.

FOREIGN NEEDS

[The MANUFACTURERS RECORD receives many letters from abroad asking for information about American goods, and others, from men who wish to represent American houses. Without assuming any responsibility for these concerns, we publish a summary of the foreign letters of inquiry from week to week.]

Oil and Gasoline Motors, Trucks, Etc.

NIKOLAUS FEHER, V. Vaci-Ut 80 (corner Revesz-utca), Budapest, Hungary.—We are interested in oil motors of modern type, also Diesel motors, freight automobiles and tractors for farms. We would like to be put in contact with manufacturers of such machines.

Merchandise Agencies Desired.

FABIO RUATA, Casilla No. 822, Guayaquil, Ecuador.—I import all kinds of merchandise. As to American articles: Hog lard, flour, conserves, especially ham, sardines, codfish, copper wire, roofing materials, wires, turpentine, furniture, soaps, fabrics, etc., are in the first class. Would accept agency. Have had 20 years' experience in commercial lines.

East Indian Students and Technical Education in America.

NAZIR HOSSEIN, care of Employees' Association, 72 Canning street, Calcutta, India.—Students in Bengal have no means of knowing the conditions which prevail in America relating to facilities which exist there for the prosecution of studies in technical subjects. They are also not aware whether the owners of factories and workshops are well disposed to entertaining applications from students in Bengal for being apprenticed to such concerns to learn business. This lack of information can to a considerable extent be removed, or least minimized, if American writers and journalists contributed letters on the subject to leading newspapers in Bengal. It has struck me that there may be publicists in America who may be anxious to impart information on the subject and other allied matters likely to be of interest to students in Bengal, desiring to get a training in America, and I, therefore, write this letter in the hope that it may attract the notice of those who feel inclined to enlighten the student community of Bengal in these matters through the press in Bengal. I shall be glad to receive any communications which your readers may be pleased to address to me on the subject, and I can undertake to forward copies thereof to the newspapers in Calcutta for publication, with a view to spread knowledge concerning the matters, unless the writers themselves object to the use of the information furnished in the manner suggested above.

CONSTRUCTION DEPARTMENT

EXPLANATORY

Additional information is published about all enterprises mentioned in this department as soon as such data can be obtained.

An asterisk (*) following an item indicates that the enterprise has been reported in a preceding issue.

DAILY BULLETIN

The Daily Bulletin is published every business day to enable its subscribers to follow up promptly the industrial, commercial, railroad, financial, building and general business development of the South and Southwest. To machinery manufacturers and dealers, contractors, engineers, and others who require daily information of every new enterprise organized and details about important additions to enterprises already established, the Daily Bulletin is invaluable. Subscription price, \$20.00 a year.

Bridges, Culverts and Viaducts

Ala., Albany—City plans building bridge across Tennessee River at Albany-Decatur; cost \$100,000; votes April 7 on \$50,000 bonds. Address City Clk.*

Ala., Decatur—City plans bridge across Tennessee River at Decatur-Albany; cost \$100,000; votes April 7 on \$50,000 bonds. Address City Clk.*

Fla., Haines City—City plans building 2 viaducts. See Road and Street Construction.

Fla., Jacksonville—See Land Development.

Fla., Saint Augustine—State Road Dept., Tallahassee, will build 3 bridges and 18 box culverts. See Road and Street Construction.

Fla., Tampa—City Commsrs. let contract to Tibbets, Pleasant, Green and Buckman, Tulsa, Okla., at \$800,000, for bridges over Hillsborough River at Cass and Platt Sts.*

Ga., Atlanta—C. M. Holland, Pur. Agt., 507 Court House, receives bids Mar. 20 for 3 bridges: Collins, over Chattahoochee River at Bolton. Powers Ferry, over Chattahoochee River, Bridge over Nancy's Creek, on Powers Ferry road; plans on file.

Ga., Augusta—State Highway Dept., East Point, appropriated \$8000 toward 2 bridges in Richmond County: on Milledgeville and Louisville roads; approximate cost \$12,000.

Ga., Augusta—Richmond County Commsrs., receive bids Apr. 7 for superstructures of 2 bridges: On Augusta-Thompson road, 11,500 lbs. reinforcing steel; on Augusta-Louisville road, 14,300 lbs. reinforcing steel; plans from State Highway Dept., East Point and Augusta; H. A. Norrell, Clk.

La., Donaldsonville—Louisiana Highway Comm., Raymond Bldg., Baton Rouge, received low bid from John Burgeous, Brignac, for 210-ft. Lake Villere Bridge on Port Vincent-St. Amant Highway, Ascension Parish.*

Md., Cumberland—State Roads Comm., 601 Garrett Bldg., Baltimore, plans 7 two-way reinforced concrete bridges, between Cumberland and Hagerstown.

Miss., Greenwood—Leflore County Board of Supvrs. let contract to F. L. Marshall at \$5800 for bridge across Yalobusha River near Whaley.

Miss., Gulfport—See Road and Street Construction.

Miss., Vicksburg—Board of Supvrs. will receive bids for steel and concrete bridge over tracks of Y. and M. V. R. R., south of Tucker's viaduct.

Missouri—State Highway Dept., Jefferson City, receives bids Mar. 28 for 20 bridges: Dallas County, on road from Buffalo to Bolivar; over Little Niangua River, five 40-ft. reinforced deck girder spans; over Coatney Branch, two 20-ft. reinforced concrete deck girder spans; over Tunas Branch, two 20-ft. reinforced concrete slab spans; Gasconade County, on road from Jefferson City to St. Louis; over Second Creek, four 40-ft. reinforced concrete deck girder spans; over Schulte Creek, three 30-ft. reinforced concrete deck girder spans; Jackson County,

over Blue River on road from Kansas City to Joplin, 130-ft. steel truss span, two 40-ft. reinforced concrete deck girder spans; Jasper County, from Joplin to Webb City; over stream, two 18-ft. reinforced concrete slab spans; over Spring River, 200-ft. steel truss span, fourteen 20-ft. reinforced concrete slab spans, two 45-ft. reinforced concrete deck girder spans; over stream, 20-ft. reinforced concrete slab spans; over stream, two 20-ft. reinforced concrete slab spans; over White Oak Creek, on road from Carthage east and west, 80-ft. steel truss span, four 24-ft. reinforced concrete slab spans; Jefferson County, over Mississippi River and Bonne Terre R. R., on road from St. Louis to Sikeston, 30-ft. and 25-ft. reinforced concrete deck girder spans; Lafayette County, on road from Kansas City to Waverly; over Little Snider Creek, 90-ft. steel truss span; over stream, two 12-ft. reinforced concrete slab span; over stream, 45-ft. reinforced concrete deck girder span; over stream, 40-ft. reinforced concrete deck girder span; Perry County, over Koehs Creek, on road from St. Louis to Perryville, 30-ft. reinforced concrete deck girder span; St. Francois County, over Missouri & Illinois R. R., on road from St. Louis to Sikeston, 24-ft. and two 20-ft. reinforced concrete slab spans; St. Genevieve County, from St. Louis to Perryville, over Saline River, 140-ft., 80-ft. and 50-ft. steel truss spans; over Auxvasse River, 130-ft. and two 60-ft. steel truss spans; B. H. Piepmeier, Ch. Engr.

N. C., Greensboro—City, P. C. Painter, Mayor, receives bids Apr. 7 for 2 concrete bridges: On Westover Ave.; on Latham Park; plans from Geo. E. Finek, Highways Engr., Greensboro.

Mo., Cassville—Barry County plans building 2 bridges across White River. Address County Commsrs.

Mo., St. Louis—Terminal Ry. Assn. of St. Louis, H. J. Pfeiffer, Ch. Engr., plans extending Seventh Ave. viaduct over its tracks about 360 ft., reinforced concrete.

N. C., Hickory—See Land Development.

N. C., Lexington—Davidson and Davie Counties plan building bridge between two counties on State Highway No. 75. Address County Commsrs.

N. C., Winston-Salem—City let contract to Tucker & Laxton, Charlotte, at \$38,958 for twin culvert at Peters Creek and Academy St. Address City Clk.

S. C., Edgefield—Georgia-Carolina Power Co., J. H. Pardoe, Pres., Augusta, Ga., appropriated \$8000 toward erecting bridge at Shaw and McKie's Mill.

Oklahoma—See Road and Street Construction.

Okla., Newkirk—See Road and Street Construction.

Tennessee—Dept. of Highways and Public Works, Nashville, will build 11 bridges. See Road and Street Construction.

Tennessee—Dept. of Highways and Public Works, Nashville, will build 12 bridges. See Road and Street Construction.

Tenn., Columbia—Maury County, F. B. Wilkes, Supt. of Roads, receives bids Mar. 31 for 4 bridges: Over Duck River, on Sowell Mill Pike; Rutherford Creek, Kedron Pike; Terrapin Branch; Love's Branch; plans on file.*

Tenn., Knoxville—Louisville & Nashville R. R. Co., W. H. Courtenay, Ch. Engr., Knoxville, plans single track steel bridge over Tennessee River, West Knoxville, estimated cost \$250,000.

Tex., Tornillo—Cities of Tornillo and Guadalupe, Mexico, plan building international bridge across Rio Grande River at Tornillo, 50 mi. below El Paso; plan highway leading to bridge on Texas side. Address City Clk.

Tex., Waco—City receives bids Mar. 24 for bridge, 21,000 lbs. reinforcing steel; plans from V. G. Koch, City Engr.; E. E. McAdams, City Mgr.

Va., Danville—W. King Anderson, 702 N. Main St., has contract for steel and concrete bridge at Spring St. Address City Clk.

Va., Lynchburg—City, E. A. Beck, Mgr., has plans to renovate and reinforce Rivermont viaduct across Blackwater Creek, estimated cost \$250,000.

Va., Roanoke—City W. P. Hunter, Mgr., received low bid from W. W. Boxley, Roanoke, at \$258,043 for reinforced concrete bridge over Roanoke River and Norfolk & Western Ry. at Thirteenth St.*

Va., South Boston—R. W. Curtis Construction Co., Lynchburg, was awarded contract for concrete bridge over Dan River, and .6 mi. concrete road; Jas. B. Wilborn, Mayor.

W. Va., Huntington—City, Floyd A. Chapman, Mayor, plans building 4 bridges, including span over Guyan River; votes May 5 on \$309,000 bonds.*

Canning and Packing Plants

Ala., Selma—L. A. Murray of Murray Plant Farm interested in establishment of cannery.

Ark., Hot Springs—Mexican Canning Assn. let contract for 40 ton unit, Howe Ice Machine Co., 2825 Montrose Ave., Chicago, Ill., and 13 ton refrigeration.*

Tenn., Bethel Springs—Bethel Springs Co., E. M. Smith, Pres., will erect canning plant.

Tenn., Lenoir City—Jim Ehlen interested in establishment of cannery.

Tenn., Selmer—Selmer Canning Co., John R. Gooch, Pres., will erect canning plant.

Tenn., Sevierville—Stokley Bros. of New- port have acquired 16 acre site; will erect cannery.

Fla., Haines City—Haines City Citrus Growers Assn. acquired 5 acres tract and will erect canning plant; 2 stories; brick or stucco; cost \$75,000.

Md., Fairlee—W. H. Webster, Hurlock, and others interested in establishment of cannery.

N. C., Brevard—Chamber of Commerce interested in establishment of canning plant.

Clayworking Plants

W. Va., Charleston—R. H. Yates, West Vir-

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

CONSTRUCTION DEPARTMENT

ginia Brick Co., interested in establishment of brick plant.

W. Va., Martinsburg—Eastern Sewer Pipe and Brick Co., capital \$350,000, incorporated; F. Vernon Aler, Pres.; H. M. Kreh, Sec., Phila., Pa.; will establish sewer pipe and clayworking plant; will install equipment for producing 100,000 brick daily; equipment furnished by E. M. Freese & Co., Gallon, O.; Hadfield-Penfield Steel Co., Bucyrus, O., and W. Kent Miller.

Coal Mines and Coke Ovens

Ala., Birmingham—Montevallo Coal Mining Co., incorporated; D. A. Thomas, Pres., 1003 S. 28th St.; J. M. Chapman, Sec.

Ala., Birmingham—Borden Fuel Corp., capital \$25,000, chartered; L. N. Shelton, Pres.; C. R. Atkins, Sec.

Ky., Fleming—A. F. Parsons, 2658 Third Ave., and associates of Huntington, W. Va., reported to acquire plants of Nagola Elkhorn Coal Co.; will develop.

Tenn., Oneida—Rosedale Blue Gem Coal Co., incorporated; J. C. Coe, Charles H. Davis.

W. Va., Charleston—Harry Silverstein, has acquired property and all assets of the Pointlick Coal Co. in Malden District.

W. Va., Welch—American Coal Co. will erect coal tipple at their Pinnacle operations, Mercer County.

W. Va., Wheeling—Bennett Coal Mining Co., capital \$10,000, incorporated; H. A. Crowther, Moundsville; T. I. Thomas, Wheeling.

Concrete and Cement Plants

Md., Baltimore—The Avalon Concrete Brick, Block and Products Co., 505 W. Redwood St., capital \$25,000, incorporated; H. L. Thomas, Adam F. Beautro.

Va., Norfolk—Virginia Portland Cement Co., E. J. Possett, V. P., National Bank of Commerce Bldg., reported, spend approximately \$1,450,000 to complete and start plant in South Norfolk; daily capacity 12,000 bags cement.*

Cotton Compress and Gins

Ark., Hope—Farmers Gin & Supply Co., A. J. Kent, Pres., wil construct cotton gin, 24x50 ft.; wood floors; galvanized tin roof; daily output 60 bales; will install 3 stands and electric power; cost of equipment \$10,000; Gillett Gin Co., Dallas, Tex., Machy. contrs.; J. R. Garrett, Gen. Contrs.

La., Lake Charles—E. J. Novak, Mgr. Association of Commerce, interested in establishment of cotton compress.

La., Mix—Mix Cotton Gin Co., capital \$12,000, incorporated; Kent D. Mix, Pres.; L. J. Persac, Sec.

Mo., Vanduser—Vanduser Gin Co., capital \$18,000, incorporated; S. J. Smith, J. M. Draughon, Memphis, Tenn.

Okla., Camargo—Williams and Blackburn Gin Co.; incorporated; C. J. Blackburn, Sam Williams.

Okla., Elk City—Sparks-Haney Gin Co., capital \$21,000, incorporated; M. L. Haney, J. T. Voight.

Okla., Frederick—S. H. Trueblood, Mc-Kinney, Tex., will erect cotton compress.

Okla., Frederick—Traders Compress Co., Fort Worth, Tex., will erect cotton compress.

Okla., Grove—E. C. Morton of Muskogee and John Wiley, Vinita, will erect cotton compress.

Okla., Hollis—Farmers Gin Co., capital \$30,000, incorporated; J. A. Cavness, R. B. Bryant.

Okla., Sentinel—Neil B. Gardner will double capacity of gin, construct plant at Thomas.

Tex., Levelland—F. H. Amos, Lubbock, let

contract to G. P. Howell, Idalou, to erect and install Murray gin.

Tex., Rails—Debolt Brothers Gin and Cotton Co., capital \$25,000, incorporated; A. M. Debolt, J. M. Debolt.

Cottonseed-Oil Mills

Tenn., Dyersburg—National Cottonseed Products Co., Memphis, acquired plant of Farmers Cotton Oil Co.

Drainage and Irrigation

Fla., Fort Ogden—W. A. Johnson and associates plan drainage system for approximately 15,000 acres land in DeSoto County; Eugene Albritton, Engr.

Fla., Fort Pierce—William H. Byington & Co., Fort Pierce, advises: We are organizing new drainage district in St. Lucie County embracing approximately 100,000 acres; district will join the North St. Lucie Drainage Dist., the Indian River Drainage Dist. and the Fort Pierce Farms Drainage Dist. on the west, extending to the Okeechobee County line; having preliminary surveys made now and will begin actual work within the next four months; contracts not yet awarded.*

Fla., West Palm Beach—Fred C. Elliott, Chf. Engr. of Everglades Drainage Dist., outlined plans to extend boundaries of district so as to include coastal strip from Coconut Grove n south to St. Lucie river on north.

La., Port Allen—Choctaw Basin Drainage Dist., Wm. L. Bernard, Sec., let contract to Jacob Kohler, Memphis, Tenn., at \$95,000 for drainage work in West Baton Rouge Parish, reclaiming 119,000 acres for cultivation.*

Electric Light and Power Plants

Ala., Muscle Shoals—U. S. Engineers Dept. has begun construction work on Wilson Dam No. 1; will span canal from Florence side to Patton Island, construct lock.

Ala., Tuscaloosa—See Land Development.

Fla., Bartow—Pres. Bartow Management Assn., New York, will probably acquire municipal light and power plant.

Fla., Bartow—See Land Development.

Fla., Bonita Springs—See Land Development.

Fla., Delray—City, J. S. Sundy, Mayor, will install white way.

Fla., Fort Lauderdale—See Land Development.

Fla., Fort Myers—See Land Development.

Fla., Jacksonville—See Land Development.

Fla., Miami—See Land Development.

Fla., Palmetto—See Land Development.

Fla., Plant City—See Land Development.

Fla., Sarasota—City considering installation of additional units. Address The Mayor.

Fla., Tampa—See Land Development.

Fla., Tarpon Springs—See Road and Street Construction.

Fla., Winter Haven—See Land Development.

La., Algiers—Algiers Public Service, Inc., increased capital from \$500,000 to \$750,000.

La., Baton Rouge—See Land Development.

La., Mansura—See Water Works.

Md., Conowingo—Arundel Corp., Pier 2, Pratt St., Baltimore, reported to have been awarded contract amounting to \$22,000,000 for work on Conowingo dam, part of \$52,500,000 project of Susquehanna Power Co., owned by Philadelphia Electric Co.; Stone & Webster, Inc., 147 Milk St., Boston, Mass., also reported to have general contract, advise contract not awarded them.*

Miss., Aberdeen—Mississippi Power Co., Gulfport, acquired electric light plant; will construct transmission line.*

Miss., Moss Point—Mississippi Power Co., Gulfport, acquired electric light system.

Mo., Bethany—See Water Works.

Mo., Hartsville—City voted \$8500 bonds

Manufacturers Record

for completion of dam on Woods Park of Gasconde River. Address The Mayor.

N. C., Andrews—City contemplates voting on \$50,000 bonds for completing electric light plant. Address Board of Aldermen.

N. C., Brevard—Cascade Light and Power Co., Dr. E. S. English, Pres., will install additional machinery.

N. C., Chimney Rock—Chimney Rock Mountains, Inc., relet contract to Dunavant Gunter Co. and E. H. Clement Co., Charlotte, for Lake Lure dam and power plant. (Contract recently let to John A. Gardner).

N. C., Cedar Mountain—See Land Development.

N. C., Rocky Mount—Homer C. Ferguson, Pres. Newport News Dry Dock and Shipbuilding Co., reported interested in purchasing and operating light and power plants in Eastern Carolina.

N. C., Winston-Salem—Fiddlers Creek Electric Co., R. F. D., incorporated; Howard C. Charles, Roy C. Pullman, both Route 6.

Okla., Morrison—City let contract to Oklahoma Gas and Electric Co. for electric light and power line.

Okla., Okmulgee—See Land Development.

S. C., Greeleyville—South Carolina Light and Power Co., Kingstree, will probably receive electric light franchise.

Tex., Gainesville—City opens bids March 17 for street lighting system; F. M. Savage, City Sec.

Tenn., Johnson City—Tennessee Eastern Electric Co., R. L. Warner, will expend \$600,000 for improvements to plant.

Tex., Ballinger—City Comsn. considering selling plant to West Texas Utilities Co.

Tex., Dallas—Dallas Power and Light Co., Interurban Bldg., reported to expend \$2,000,000 in installations and equipments; erect building; install 20,000 kw.*

Tex., Houston—See Land Development.

Tex., Nacogdoches—City votes April 14 on selling water and light. Address The Mayor.

Tex., Wellington—City will soon let contract for power plant extension; V. V. Long & Co., Engrs., Oklahoma City, Okla.*

Va., Clinchfield—Dumps Creek Light & Power Co., incorporated; Chas. V. Davidson, Pres.; Esther Browning, Sec.

Flour, Feed and Meal Mills

Mo., Kansas City—Washburn-Crosby Co., 3100 Guionette Ave., has begun construction work on 1,000,000 bu. addition to plant; reinforced concrete; 100 ft. high; contain 21 circular tanks, 25 ft. in diam.; cost \$400,000.

Mo., North Kansas City—Staley Milling Co., capital \$100,000, incorporated; J. H. Staley, E. M. Hetherington.

Tenn., Dayton—Dayton Milling Co. increased capital, \$30,000 to \$50,000.

Foundry and Machine Plants

Mo., St. Louis—J. M. Carpenter & Co., Wainwright Bldg., let contract to J. J. Bassett, 926 N. Twenty-sixth St., at \$10,000 for alterations to foundry building at 1705 N. Ninth St.

S. C., Greenville—Greenville Steel & Foundry Co., N. Markley and Grace St., have plans for increasing both plant and facilities; specialize in casting mill machine parts.

Tenn., Athens—Athens Plow Works, having plans made for additional buildings, will install especially constructed machinery; let contract to O. W. Duggan for 55x140 ft. warehouse; steel, brick and reinforced concrete.

Tex., Houston—Southern Car & Foundry Co., Jackson, Tenn., wires: "This company purchased plant at Houston, formerly occupied by Southern Motors and will manufacture and repair freight cars, plant to operate under same name as this company; structural department devoted to bridges and fabricated

In writing to parties mentioned in this department it will be of advantage to all concerned

if the Manufacturers Record is mentioned.

steel; initial capacity Houston plant 20 cars daily.*

Gas and Oil Enterprises

Fla., Leesburg—Cygnus Oil Co., capital \$25,000, incorporated; R. H. McDougall, Pres.; W. C. Hall, Sec.

Fla., Tampa—See Land Development.

Fla., Tavares—Mexican Petroleum Corp., A. H. Sanford, Asst. Supt., Orlando, purchased site and will erect warehouse and storage building, fireproof; install two 25,000-gallon tanks, construct siding, etc.

La., Crowley—O. N. Johnson, Shreveport, J. H. Lowe, Lafayette, will erect distributing station.

La., Lake Charles—General Production Co. incorporated by C. J. Campbell, G. L. Cline.

La., New Orleans—Delta Oil Co., capital \$18,000, incorporated; J. W. Todd, L. L. & C. Bldg., Pres.; E. E. Lansing, Sec.

La., Monroe—Best Oil Co., capital \$20,000, incorporated; Twiggs R. Rogers, Sr., Pres., 6334 Sheridan Rd., Chicago, Ill.; Alphonse E. Boger, Sec., 6340 Sheridan Rd., Chicago, Ill.

Okla., Ardmore—The J. O. Whittington Interests have let contract for erection of 19,000 barrels additional steel storage.

Okla., Barnsdall—Barnsdall Corp. will rebuild burned refinery.

Okla., Okmulgee—G-M Oil Co., capital \$50,000, incorporated; Harry C. DeVinnam, 534 N. Okmulgee; George M. Swift.

Okla., Okmulgee—See Land Development.

S. C. Greenville—See Land Development.

Tex., Corpus Christi—Gulf Coast Power Co. let contract to Sumner Sollitt Co., National Bank of Commerce, San Antonio, to construct boiler house, cost \$10,000; Jno. M. Marriott, Archt., Frost Bldg., San Antonio.

Tex., Dallas—See Land Development.

Tex., Houston—Houston Gas and Fuel Co., petitioned city for new franchise.

Tex., Houston—Salt Dome Oil Co., capital \$30,000, incorporated; H. G. Frost, Jr., 406 Gray Ave.; Mrs. N. Huffman.

Tex., Plainview—Terrell Oil and Refining Co., Terrell, Tex., J. N. Hardaway, V. P., will erect oil mill.

Tex., Victoria—City votes April 14 on granting gas franchise; have called for bids for two 150 h.p. boilers; addition to pump house, etc. Address The Mayor.

Tex., Waskom—Waskom Gas Co. incorporated; W. L. Rudd, Jake Morefield.

Va., Richmond—Public Utilities Department plan installation of water gas generator, increasing present daily capacity to 9,000,000 cu. ft., install 2 waste heat boilers, cost about \$45,000; bids opened April 1.

Va., Winchester—Central States Utilities Co., Detroit, Mich., acquired Winchester Gas Co.'s plant.

W. Va., Charleston—Hope Natural Gas Co., controlled by Standard Oil Co., 46 Broadway, N. Y., reported to begin construction of 100-mile pipe line.*

Ice and Cold-Storage Plants

Ark., Searcy—The Goodwin Co., Inc., H. M. Thompson, Sec., remodel present building, install \$5000 refrigerating outfit, open bids about Aug. 1.

Fla., Miami—The Coral Gables Ice Co., Geo. O. Haskell, Pres., plans building second unit to plant, increasing capacity from 28 to 60 tons.

Ga., Griffin—The Peoples Ice Co. will electrically equip the additional 25 ton unit at plant No. 1 in East Griffin, increasing daily capacity to 70 tons.

La., New Orleans—Vivien Ice Manufacturing Co., Inc., capital \$30,000, chartered; Lucien T. Vivien, Pres., 1519 N. Broad St.; Jos. R. Bourg, Sr., Sec., 817 Mandeville St.

La., New Orleans—Wm. D. Seymour, 4432 Carondelet St.; George M. Milan, 929 N.

Solomon St., and associates contemplate establishing \$125,000 ice plant on Gentilly Ave.; capacity 71 tons.

Okla., Ponca City—Electric Ice Co., capital \$100,000, incorporated; W. B. Beard, D. T. Jordan.

Tenn., Knoxville—Alexander Harris, Director of Public Service, reported contemplates installing \$50,000 refrigeration system in city market.

Tenn., Dickson—Peoples Ice, Coal & Storage Co., capital \$40,000, chartered; De. C. M. Lovell, Pres.; Harry Leathers, Sec.

Tenn., Oneida—Oneida Ice, Ice Cream & Cold Storage Co., capital \$18,000, incorporated; J. I. Wademan, W. B. Atkinson.

Tex., Gonzales—Stahl Bros. will erect \$17,000 addition to plant, reinforced concrete and brick; Will Noonan, Archt., Moore Bldg., San Antonio.

Tex., McKinney—McKinney Ice & Coal Co. will expend \$45,000 on plant improvements, double capacity, install additional machinery.

Tex., Vernon—Central Texas Power Co. let contract to Summer Solitt Co., Natl. Bank of Commerce, San Antonio, at \$18,300 for ice plant; John Marriott, Archt., Frost Bldg., San Antonio.

W. Va., Martinsburg—The Rothwell-Gatrell Co. has begun construction of \$75,000 addition to cold storage plant, increasing capacity to 75,000 bu. apples.

Iron and Steel Plants

Tex., Houston—The Houston Structural Steel Co., Yale and Center St., reported to expend approximately \$100,000 on plant addition and equipment; crane runway shed, 328x80 ft., steel and corrugated tin roofing; 60x100-ft. extension to main mill building; 60x100-ft. addition to steel fabricating plant; install \$12,000 electric crane to handle heavy materials.

Land Development

Ala., Anniston—Cleburne Land Co., incorporated; Mortimer C. Sterne, Pres.; John F. Williams, Sec.

Ala., Birmingham—Bir-Bess Realty Co., incorporated Ida E. Jones, Pres.; H. Jones, Sec.

Ala., Birmingham—Boyd Real Estate and Insurance Co., incorporated George E. Byrd, Pres.; Lois McLaurine, Sec.

Ala., Birmingham—Jenkins Investment Co., capital \$10,000, incorporated; Raleigh M. Jenkins, 3501 Cliff Rd.; W. T. Hill, Sec.

Ala., Bessemer—Woodward Golf and Country Club will construct golf course.

Ala., Birmingham—City Improvement Co., J. M. Byrd, Pres., interested in development of subdivision at Mountain Park.

Ala., Birmingham—Estes Realty Co., incorporated; Claude H. Estes, 10 Glen Iris Pk., Pres.; Tom G. Estes, Sec.

Ala., Talladega—City Development Co., incorporated by Turner J. Jones, W. C. Dowdell.

Ala., Tuscaloosa—M. C. Rumley Lumber Co., capital \$100,000, incorporated; M. C. Rumley, Pres.; develop 20 acres subdivision; install \$7500 sewer system; \$2500 water works; \$7500 roads and streets; gas and electric lights furnished by Alabama Power Co.; F. W. Bridges, has grading contract; other contracts not let; W. H. Nicol, Constr. Engr., Tuscaloosa.*

Ala., Tuscaloosa—Claudie Realty Co., incorporated by C. B. Verner, O. K. Park.

Ark., Fayetteville—Mount Sequoyah Country Club, Dr. A. C. Millar, Little Rock, will construct 18-hole golf course, lake and dam.

Ark., Gravette—S. R. Davis acquired 160 acres, develop dairy farm.

Fla., Altamonte Springs—Altamonte Development Co., capital \$50,000, incorporated; B. L. Maitbie, Pres.; A. E. Cline, Sec.

Fla., Arcadia—Forest City Holding Co., capital \$200,000, incorporated; J. C. Ambler, Pres.; John H. Treadwell, Jr.

Fla., Bartow—O. W. Finney acquired 14 acres land; develop subdivision, construct roads.

Fla., Bartow—J. I. Triplett will develop 176-acre subdivision.

Fla., Bartow—E. C. Stuart & Sons will develop subdivision; install water, sewers, roads and streets, electric lights, etc.

Fla., Bartow—Holman Realty Co., Lakeland, will develop 40-acre grove with water front for subdivisional construction hard-surfaced roads, etc.

Fla., Bonita Springs—Gilmer M. Heitman is developing 4000-acre subdivision; will construct streets, install water, sewers, electric lights, etc.

Fla., Boynton—Arthur McDermott, Valley Stream, L. I. acquired 10 acres; will develop.

Fla., Bushnell—F. H. Hayes, 25 N. Dearborn St., Chicago, Ill., acquired 5000 acre tract.

Fla., Clearwater—Rossmont Development Co., incorporated; J. Dunbar Ross, Pres.; Ward E. Pearson, Sec.

Fla., Cocoa—Bourinot & Sturdevant, Miami, acquired 480 acres land; will divide into small farms; install canals, build roads, etc.

Fla., Dade City—Puritan Properties Co. acquired 600 acres near Ehren, containing lake; will develop for subdivision.

Fla., Dade City—W. H. Sturgis, C. L. Goodell, Worcester, N. Y., acquired 110 acres; develop subdivision.

Fla., Daytona—Hawkes F. Thompson and associates have acquired 30-acre tract; will develop subdivision.

Fla., Delray—City, J. S. Sundy, Mayor, will develop 135 acres for golf course; install electric lights, water works and roads and streets.*

Fla., Fort Lauderdale—Lorenzo W. Baldwin, Jacksonville, acquired 65-acre tract; develop subdivision.

Fla., Fort Lauderdale—Florida Cape Cod Realty Comsn., Boston, Mass., acquired Venice and will develop subdivision; install water, sewers, roads, lights, etc.

Fla., Fort Myers—Tennessee Land Co., capital \$100,000, incorporated; H. E. McCormack, Pres.

Fla., Fort Myers—H. E. McCormick, J. H. Bankhead, Jr., Jasper, Ala., applied to City Comsn. for permission to construct 1200-acre island in Caloosahatchee River, extending full length of city; will expend millions in subdivision development with golf course and public parks; island to be reached by bridge from foot of Fowler St.; resort hotel will cover 23 acres; boulevard to encircle entire island; Venetian canals and interior avenues; interior of island will be designed for lagoon harbor, about 2 miles in diam.; construction in two units; install water, sewers, lights, etc.; plans by McElroy Engineering Co., Tampa; Robt. F. Smallwood, Archt., Clearwater. J. H. Bankhead advises that proposed island is in Caloosahatchee River, to contain approximately 1200 acres with golf course in center and 2 boat canals crossing island; \$10,000,000 development contemplated; H. E. McCormack, 2130 12th Ave., N., Birmingham, Ala., owns right to construct island; McElroy Engineering Co., 32-34 Giddens Bldg., Tampa, Engrs.

Fla., Fort Myers—Wm. V. Faunce of Chicago, Ill., acquired Twin Palm Groves; will develop, construct seawall; fill-in; about 10 acres.

Fla., Jacksonville—L. K. Riley acquired 4000 acres near Margareta; will develop.

Fla., Jacksonville—H. F. Carter, 118 E. 28th St.; Morgan Aiken Jones, both New York, acquired 60,000 acres in Flagler and St. John's County.

Fla., Jacksonville—Consolidated Develop-

Cattle Co., incorporated by Hermine Yturria, Daniel Yturria.

Tex., Dallas—Republic Trust & Savings Bank, Wirt Davis, Pres., will develop 34 acres for subdivision; expend \$17,000 for gas; \$25,000 for sewers; \$20,000 for water works; \$88,000 for roads and streets; Myers & Noyes, Landscape Archt. and C. E.*

Tex., Fort Worth—Board of Park Commrs. opens bids April 5 for improvements to Burnett Park; F. J. Von Zuben, Supv. Engr.*

Tex., Houston—Seaboard Realty Corp., incorporated; Dora B. Myers, T. G. Kinney.

Tex., Houston—W. T. Carter Lumber and Building Co., 1201 Capitol, will develop 1100 acres on Telephone Rd. for subdivision; will construct roads and streets, install water, sewer, lights, etc.

Tex., Lancaster—Amrita Grotto, Ed. Ryan, will install golf course, tennis courts.

Tex., San Antonio—San Antonio Heights Co., incorporated; R. K. Thornton, Laurance Lyon.

Tex., San Antonio—Robinson Hotel Realty Co., capital \$200,000, incorporated; Wallace N. Robinson, 4219 S. Presa St.; Wallace N. Robinson, Jr.

Va., Suffolk—Dardens, Inc., capital \$1,000,000, incorporated; J. M. Darden, Sr., Pres.; J. M. Darden, Jr., Sec. M. & S. Shops.

Va., Norfolk—Durey Land and Timber Corp., incorporated, with John E. Conroy Pres.; John P. Wright, Sec., Fentress.

W. Va., Fairmont—Fairmont Industrial Corp., capital \$100,000, incorporated; John M. Kisner, C. D. Robinson.

W. Va., Huntington—Security Realty Co., Incorporated; F. L. Agee, R. C. Bell, 1219 7th Ave.

W. Va., New Martinsville—Ohio Valley Land Co., incorporated; J. U. Dayton, J. W. Harman.

Lumber Enterprises

Ala., Tuscaloosa—The Sipsey Co. of Eldorado, Ark., reported to have purchased 15,000 acres timber land in Tuscaloosa County from the Deal Sawmill Co.

Ark., Wrightsville—P. A. Byrd, 1514 Booker St., Little Rock, will rebuild saw mill, shingle and planing mill (lately noted burned); consists of three mills in one, daily capacity of saw mill 20,000-ft.; 50,000 cypress shingles and 15,000 ft. of dressed lumber.*

Fla., Jacksonville—Coard Lumber Co., capital \$50,000, incorporated; Geo. L. Estes, Pres.; B. D. Causey, Sec.

Ky., Paducah—The Langstaff-Orn Lumber Co., Geo. Langstaff, Sr., Pres., will erect temporary saw mill immediately; plant burned at loss of \$50,000.

Fla., Pensacola—F. F. Bingham has acquired 640 acres near Cottage Hill, will experiment in the French turpentine system.

Fla., St. Augustine—W. E. Montgomery Lumber Co., capital \$10,000, incorporated; W. E. Montgomery, Pres.; Clarence E. Duncan, Sec.

Ky., Roxana—F. Geo. Hogg and others have acquired timber land along North Fork river, will develop.

Ky., Roxana—Silas Whitaker and others, have acquired timber land on Kings creek, will develop.

Miss., Centreville—Reed Lumber Co. will erect two mills, each with capacity of 25,000 ft. per 10 hours; install standard steam dry kiln, fast feed planing machine, blower or fan, lumber buggies, engines, boilers, etc.; new or second-hand. (See Machinery Wanted—Saw Mill Equipment; Boilers; Engines.)*

Mo., St. Louis—Krug Lumber Co., Main and N. Market St., increased capital \$10,000 to \$35,000.

N. C., Waynesville—Sunerest Lumber Co., Philadelphia, Pa., reported, purchased the Champion Fibre Plant, Waynesville, also move

mill at Sunburst to Waynesville; acquired 14 mi. narrow gauge railroad, will make into standard gauge road and lay 10 mi. additional trackage to develop hardwood timber in Cataloochee district.

S. C., Florence—Ashcraft-Griffin Lumber Co., Sanborn and Darlington st., have begun construction of factory.

Tenn., Nashville—Hollis Johnson Lumber Co., capital \$50,000, incorporated; L. D. Johnson, W. F. Brooks, 4505 Alabama Ave.

Tex., Austin—Reinhardt Lumber Co., capital \$30,000, incorporated; Geo. T. Reinhardt, C. E. Spurin, 3164 Duval St.

Tex., Laredo—City Lumber Co., increased capital, \$125,000 to \$150,000.

Tex., Ralls—Debolt Lumber Co., capital \$25,000, incorporated; A. M. Debolt, J. M. Debolt.

Metal-Working Plants

La., Shreveport—The Colossus Co., J. R. Russell, Pres., 115½ Texas St., acquired Gulf Can Co.'s plant; will operate; contemplated daily output 10,000 cans.

Md., Princess Anne—Evans Metal Furniture Corp., capital \$100,000, chartered; Calvin J. Evans, Levin D. Beauchamps.

Mo., St. Louis—American Metal Products Corp., capital \$50,000, chartered; S. Kauffman, 4243 W. Page St.; E. Taylor.

Mining

Ark., Havana—Clear Creek Mine & Milling Co., capital \$300,000, incorporated; C. E. Stewart, Pres., of California; R. F. Waters, Sec.; plans gold and silver mining in Yell County.

Tenn., Cleveland—Geo. Blow of Knoxville contemplates taking option on 1000 acres, including the Hardwick holdings; develop lead deposits.

W. Va., Huntington—Wilson Sand & Gravel Co., Capt. Pearl Burdette, Mgr., have improvements under construction, installing belt conveyor from tipple of plant at Thirteenth St. to storage bin, daily capacity 2000 tons, doubling present capacity; enlarge storage bin, increasing capacity by 3000 tons.

W. Va., New Martinsville—Ohio Valley Sand Co., capital \$100,000, incorporated; J. U. Dayton, J. W. G. Harman.

W. Va., Potomac Manor—The Boyd Mining Co., capital \$50,000, incorporated; James G. Boyd, Geo. Kinkhead; development in Garrett County, Md.

W. Va., Wellsburg—Johnston Mining Co., capital \$25,000, incorporated; W. P. Johnston, Ralph K. Cox.

Miscellaneous Construction

Ala., Florence—See Electric Light and Power Plants.

Ark., Fayetteville—See Land Development.

Fla., Cocoa—See Land Development.

Fla., Leesburg—City contemplates \$100,000 bond election for municipal improvements; consists of dredging Lake Harris, filling certain marsh grounds, establish waterfront park, boat basin, swimming pool, aeroplane landing field, etc.; also contemplates building ½-mi. canal connecting Lake Harris and Griffin; D. E. Bivins, City Mgr.

Fla., Fort Myers—See Land Development.

Fla., Jacksonville—See Land Development.

Fla., Key West—Seawall—See Road and Street Construction.

Fla., Miami—Miami harbor improvement recommended by the Army Engineers and later approved by Congress calls for expenditure of \$1,605,000, deepening channel from 18 to 25 ft.; route of channel along the Causeway, from Peninsular Terminal Co.'s property (Carl Fisher development), to turning basin and municipal docks; entrance at

Atlantic Ocean will be 500 ft. wide, channel 300 ft. wide through the Government cut and 200 ft. wide along Causeway. Address Port Commrs.

Fla., Miami—Harbor—Peninsular Terminal Co., Carl G. Fisher, Central School Bldg., reported, have approved plans for spending an additional \$1,000,000 on work including slips and bulkheading about the company's development; Clark Dredging Co., 356 SW. N. Run Drive, has contract for additional work.

Fla., Sarasota—Track—Sarasota Jockey Club, reported plans constructing \$1,250,000 race track.

Fla., St. Petersburg—City votes May 12 on following: \$1,000,000 bonds for municipal pier, \$194,000 bonds for construction of yacht basins and necessary seawalls and fills, \$180,000 bonds for Booker Creek drainage, \$250,000 bonds for waterfront park, deepen creek from 9th St. through Roser Park to Bayboro harbor, replace present concrete retaining wall with solid concrete bulkheads and grade bed of creek. Address City Clk.

Ky., Monticello—U. S. Engineers Corps. will make surveys for proposed construction of either 11 small or 4 large dams between locks 8 and 31 on Cumberland River; proposed construction will develop greater water transportation.

La., Baton Rouge—See Land Development.

La., New Orleans—Intracoastal Canal. New Orleans and Plaquemine, La., to Corpus Christi, Tex., approved by Congress, authorized new waterway.

Mo., Kansas City—Wabash Ry. Co., R. H. Howard, Ch. Engr., St. Louis, Mo., reported, considering addition of 1,000,000 bu. to capacity of elevator operated by Nye & Jenkins Grain Co., New York Life Bldg. Wire from R. H. Howard states: "No definite plans for Kansas City elevator."

Mo., Nevada—Subway—City, J. J. Lindley, Mayor, let contract to T. H. Johnson of Sedalia, at \$94,915.37 for subway under railroad tracks on E. Walnut St.; width of subway 38 ft., providing both vehicle and foot passage.*

Mo., St. Louis—Elevator—W. H. Danforth, Pres., Purina Mills, 8th and Gratiot Sts. reported to have acquired 700,000 bu. elevator of J. H. Teasdale & Co., foot Chouteau St.

N. C., Chimney Rock—See Electric Light and Power Plants.

N. C., Hickory—See Land Development.

Okla., Oklahoma City—Jones Hettelsater Construction Co. will erect concrete grain storage tanks at 11 W. Washington St., estimated cost \$12,000.

Tex., Lubbock—City Commrs. let contract to National Incinerator Co., at \$21,800, for incinerator plant, erect 60-ft. stack, 3 ft. diam., reinforced concrete.

Tex., Port Aransas—U. S. Dist. Engineers let contract to John Jacobson, Galveston, for dredging harbor in front of oil terminals.

Tex., Waco—Dam—Silver Lake Club, will construct by day labor, 12-in. concrete wall with earth each side, dam 300 ft. long, 30 ft. high; cost \$6000; McCall Engineering Co., Engr., 307 Amicable Bldg., Waco. (See Machinery Wanted—Shovel).*

Miscellaneous Enterprises

Ala., Athens—Limestone Plumbing & Electrical Co., Inc., capital \$10,000, chartered; S. W. Parham, Jr., Thomas Izard.

Ala., Boaz—Farmers Warehouse & Supply Co., capital \$50,000, incorporated; S. V. Higgins, G. P. Williams.

Ala., Florence—Health Food Corp., capital \$100,000, chartered; J. E. Ganet, Foster Gavin.

Ala., Florence—A. T. Putteet Hardware Co., capital \$50,000, incorporated; A. T. Putteet, T. O. Betts.

Ala., Montgomery—H. & C. Electric Serv.

ice Co., capital \$10,000, incorporated; J. G. Haley, Geo. R. Dibble.

Ala., Sanford—Dean-Berg Corp., capital \$50,000, chartered; R. L. Dean, Pres.; R. H. Berg, Sec.

Ark., Fayetteville—Joe Ward of Fort Smith, reported, erect ice cream plant, corner Spring and Block Sts.

Ark., Little Rock—Southern Plating Works, J. E. Goetschius, Prop., 807 Broadway, let contract to Frederick B. Stevens Co., Detroit, Mich., and Bemberg Iron Works, 1000 Fairview St., Little Rock, for additional equipment.*

D. C., Washington—Hume-Patterson Co., Inc., capital \$100,000, chartered; D. C. Patterson, Alan P. Hume, 3502 Conn. Ave. N. W.

Fla., Fort Lauderdale—The Daily Sentinel and the Weekly Herald will occupy the new Sherwin Bldg., now under construction; install modern equipment throughout. W. J. Galvin, Mgr., advises: Building at Pratt and Third Sts. is being constructed by Mills & Norton; Francis Abreau, Archt.; principal supplies purchased from South Florida Builders Co.: Fort Lauderdale Lumber Co. and the Gate City Sash and Door Co., all of Fort Lauderdale.

Fla., Fort Lauderdale—The Stranahan Building Co., capital \$500,000, incorporated; Frank Stranahan, Pres.

Fla., Fort Lauderdale—City contemplates increasing fire fighting equipment. Address City Clerk.

Fla., Jacksonville—Dorsey Baking Co., 2341 Main St., reported, to expend \$250,000 for enlargement of bakery; reported contract to be let in thirty days; company is one of the subsidiaries of the Southern Baking Co., New York.*

Fla., Jacksonville—Charles V. Imeson, City Water Engr., recommends City of Jacksonville purchasing watershed of 65,000 acres, of the North Fork of the Black Water Creek; Buckman Corp., Consnl. Engr.*

Fla., Jacksonville—The Florida Screen Manufacturing Co., capital \$30,000, incorporated; W. B. Winfield, Pres.; G. M. French, Sec.; has established plant at 2021 Gilmore St. to manufacture screens, etc.

Fla., La Belle—Geo. A. Fisher of Wheeling, W. Va., has acquired the Carl Bekemeyer Dairy Farm, will establish modern and sanitary dairy, install refrigerating and pasteurizing equipment, etc.

Fla., La Belle—D. E. Jenne of Lake Worth, will establish bottling plant.

Fla., Lake Wales—John Whitfield has contract to fence 2200 acres to be known as Bok Flamingo Jungle near Babson Park; Frederick Law Olmstead, Landscape Engr.

Fla., Lake Wales—Salidite Products, Inc., capital \$75,000, chartered; W. J. Smith, Pres.; S. C. Smith, Sec.

Fla., Miami—Greater Miami Building Corp., capital \$50,000, chartered; E. W. Bebinger, Pres.; Winefred Barstow, Sec.

Fla., Miami—Consolidated Block & Tile Co., capital \$100,000, incorporated; Cecil B. Seay, A. Rex Daniels, Calumet Bldg.

Fla., Miami—The Keylarney Corp., capital \$10,000, chartered; E. M. Lee, Pres., 421 N. E. 9th St.; Hazel Shedd, Sec.

Fla., Miami—Magic City Awning Works, Inc., chartered; W. O. Kozier, Pres.; Faith J. Kozier, Sec.

Fla., Miami—C. H. Perry Construction Co., capital \$20,000, incorporated; C. H. Perry, Pres., 43 S. W. 2nd; M. E. Shields, Sec.

Fla., Miami—Biscayne Oyster, Clam & Crawfish Co., capital \$30,000, incorporated; C. H. Nesle, W. H. Lindsay.

Fla., Miami—Contracting—Smalley Properties, Inc., capital \$50,000, chartered; E. B. Smalley, C. E. Clark.

Fla., Miami—Jordan-Miami Co., capital \$35,000, incorporated; J. B. Duckworth, Pres.; A. L. Morgan, Sec.

Fla., Micanopy—H. L. Montgomery, Inc., capital \$20,000, chartered; Philip E. Padro, Pres.; Thomas C. Gould, Sec.

Fla., Palmetto—Carl Ingram, Inc., capital \$55,000, chartered; Carl Ingram, Pres.; J. T. Fleming, Sec.

Fla., Pomona—The W. S. Middleton Co., capital \$50,000, chartered; W. S. Middleton, Jr., Pres.; C. D. Middleton, Sec.

Fla., Punta Gorda—The Gray Holmes Hotels, capital \$15,000, incorporated; Robert Holmes, Pres.; Gray Holmes, Sec.

Fla., Sarasota—City contemplates installing fire-alarm system. Address City Clerk.

Fla., St. Petersburg—O. K. Storage & Transfer Co., capital \$25,000, incorporated; James R. Bussey, Pres., 301 Central National Bank Bldg.; Raney H. Martin, Sec.

Fla., Tampa—Douglas S. Conoley, Inc., capital \$10,000, chartered; Douglas S. Conoley, Pres., 210 DeKeon St.; John Burke, Sec.

Fla., Tampa—Strickland & Wisdom, capital \$50,000, chartered; Louis E. Wisdom, Pres.; W. C. Marion, Sec., 5904 Suwanee Ave.

Fla., Tampa—F. L. Kearney Co., capital \$10,000, incorporated; F. L. Kearney and A. M. Kearney, both Naples.

Fla., Tampa—U. S. Export Chemical Co., Harry L. Pierce, V.-P., 467 First Ave. N. St. Petersburg, will begin immediate erection of building on Hillsborough Bay for the manufacture of activated carbon; main plant used for production of double super-phosphate is nearing completion.*

Fla., Titusville—City, J. P. Wilson, Clk., voted \$15,000 bonds for fire department.

Fla., West Palm Beach—Co-operative Construction Co., capital \$100,000, incorporated; G. A. Chalker, Jr., Pres.; W. C. Crittenden, Sec.

Fla., Winter Haven—Florida-Haven Co., capital \$500,000, incorporated; Otto G. Owen, Pres.; V. A. Smith, Sec.

Fla., Winter Haven—Wilson & Walthall, Inc., capital \$25,000, chartered; E. B. Walthall, Pres.; Carrie Walthall, Sec.

Ga., Atlanta—The Atlanta Constitution, Clark Howell, Editor, will rebuild sixth floor of building, recently destroyed by fire; Morgan & Dillon Archts., Grant Bldg.

Ga., Atlanta—S. H. Browning, 211 Clifton Rd., let contract to G. H. Bray, 756 Candler Annex, for \$18,000 building, 50x77 1/2 ft., reinforced concrete, concrete floor, concrete, tar and gravel roof; install machine and electric shop equipment.

Ga., Griffin—Dietz Brothers & Co., Inc., capital \$10,000, chartered; S. Dietz, H. Dietz.

Ga., Rome—Shackleton-Evans, Inc., chartered; H. H. Shackleton, R. R. Evans; manufacture electrical heating devices.

Ga., Savannah—Dan I. Sultan, U. S. Dist. Engineer, let contract to Truseon Steel Co., Youngstown, Ohio, for new pattern shed for U. S. Engineers' plant on Hutchinson Island: steel frame and coppered steel roof, concrete floor.

Ky., Louisville—The Vogt Refrigerator Co. will erect \$20,000 plant at 616 Barret Ave.*

Ky., Louisville—Gross, Parsons & Hambleton Printing Co., 123 W. Main St., will erect \$22,000 plant at 628 South St.

La., Baton Rouge—North Street Store Co., incorporated; A. F. Courville, E. C. Simon.

La., Crowley—Mutual Rice Co., 220 Decatur St., New Orleans, La., has acquired the Federal Rice Milling Co.'s plant.

La., Minden—Fort-Hortman Co., Inc., capital \$15,000, chartered; Walton Fort, Pres.; Thomas M. Fort, Sec.

La., New Orleans—Autocycle Co., Inc., chartered; Charles Louque, 2124 St. Philip; Jules Buchel.

La., New Orleans—Capital City Transportation Co., Inc., capital \$10,000, chartered; A. H. Johness, Pres., 816 Predido St.; M. P. Boebinger, Sec., 1201 Maison Blanche Bldg.

La., New Orleans—Southern Handle Manu-

facturing Co., Inc., 4200 Tulane St., increased capital to \$30,000.

La., Rayville—Guenard-Lucas-Almond Drug Co., Inc., capital \$15,000, chartered; R. S. Guenard, Pres.; R. M. Almond, Sec.

La., Shreveport—Journal Publishing Co., Inc., capital \$200,000, chartered; D. Attaway, S. E. Robinson Pl., Pres.; D. G. Frantz, Sec.

La., Violet—Deep Sea Canning & Packing Co., Inc., capital \$30,000, chartered; Lawrence F. Cuculich, Pres.; L. H. Folse, Sec.

La., Welsh—Acme Planting & Development Co., Inc., capital \$25,000, chartered; Arthur T. Jones, Pres.; Mrs. Nellie V. Jones, Sec.

Md., Baltimore—Frank H. Snowman Transfer Co., 1712 E. 31st St., capital \$50,000, incorporated; Frank J. Snowman, John L. Einschutz.

Md., Baltimore—The Everhot Heater Sales Co., 15 E. Fayette St., capital \$25,000, incorporated; N. W. Hamill, C. Morris Harrison.

Md., Baltimore—Roland Park Apartment Co., capital \$400,000, incorporated; Maurice A. Long, Edward L. Palmer, Jr.

Md., Baltimore—The Gould Coupler Co., 101 Title Bldg., incorporated; Charles B. Hoffman, James Carey, 3rd.

Md., Baltimore—The Eastern Laundries Corp., chartered; J. Bannister Hall, Resident Agt., 10 E. Fayette St.

Md., Baltimore—American Fountain Co., Inc., Howard and Lexington Sts., capital \$10,000, chartered; Harry Blichman, Joshua T. Gillean.

Md., Baltimore—Plumbing—Paul R. Buchwald, Inc., 4603 Harford Ave., capital \$20,000, chartered; Paul R. Buchwald, Bruno Buchwald.

Md., Baltimore—Western Maryland Dairy Co., Linden Ave., A. B. Gardiner, Pres., advises: Acquired additional property as protection to any further advancement of the growth of this business, at this time will utilize the rear yard space for milk-bottle shed, about 20x130 ft. floor area, estimated cost with widening and paving alley \$10,000.*

Md., Baltimore—Signs—Litsinger, Inc., 6 S. Liberty St., capital \$15,000, chartered; Irving B. Litsinger, Harry Yaffe.

Md., Baltimore—Cardboard, etc.—The Cooperative Syndicate, Inc., 424 E. Saratoga St., capital \$20,000, chartered; John P. Lambert, Frank H. Zeigler.

Md., Baltimore—The Onlee Piston Ring Co., 2 E. Lexington St., capital \$10,000; John Ryan, Otto W. Dissenbach.

Md., Frederick—R. Paul Smith, Gen. Mgr. Blue Ridge Transportation Co., main office, Hagerstown, Md., will operate motor bus line between Washington and Frederick.

Md., Westminster—T. W. Mather & Son, Inc., capital \$125,000, chartered; Geo. K. Mather, Frank W. Mather.

Miss., Wiggins—American Pickle & Canning Co., W. E. Guild, Pres., will erect new salting stations at McCall addition and at Brookhaven, Miss., forty 10x7 tanks at each location, frame construction, area covered by roof 150x150 ft.; construction by own forces.*

Mo., Hannibal—Self Service Co., incorporated; Wm. E. Humphrey, E. W. Nelson.

Mo., Joplin—Grantham's Ampico Studios, Inc., capital \$40,000, chartered; J. W. Grantham, Baxter Springs, Kan.; C. V. Owen, Joplin.

Mo., Kansas City—A. J. Stevens Grease & Oil Co., capital \$60,000, incorporated; A. J. Stevens, J. A. Cannon.

Mo., Kansas City—Printing—Educators Service Assn., capital \$15,000, chartered; James D. Dufton, 435 Gladstone Blvd.; Chas. J. Shelton.

Mo., Kansas City—Marva Garment Co., 2609 Walnut St., incorporated; W. W. Burgess, W. H. Webb.

Mo., Kansas City—Bryce B. Smith, Pres.,

Consumers Bread Co., advises: "The Empire Baking Co., formed by myself and associates, plans are well advanced toward taking in number of important properties throughout country and will use own bakeries as nucleus.*

Mo., Kansas City—Kansas City Macaroni & Importing Co., Charlotte and Campbell St., will soon begin work on plant addition, increasing capacity to 400 bbl. daily; estimated cost for building and equipment \$140,000.

Mo., Kansas City—Missouri Cattle Feeding Co. will expend approximately \$125,000 on construction of livestock feeding yards near Raytown Rd. and Thirty-ninth St.

Mo., Kansas City—Atlas Laundry Co., Tenth and Euclid Ave., capital \$100,000, incorporated; A. W. Carlson, G. W. Stubbs.

Mo., Kansas City—Shires Paint & Glass Co., capital \$10,000, incorporated; Milas A. Oxley, 1007 McGee St., Benj. A. Shires.

Mo., Rosedale—The Rosedale Community Theatre Co., capital \$9,000, incorporated; H. H. Adkins, E. J. Achter.

Mo., St. Joseph—Eugene Field Apartment Co., capital \$15,000, incorporated; W. B. Norris, 212 Corby-Forsee Bldg., John N. Dunsmore.

Mo., Springfield—The Kelly Coal & Material Co., Ray D. Kelly, Pres., will erect 2-story building on N. Jefferson St., brick and stone; building material.

Mo., St. Louis—Corr Service Erection Co., Inc., capital \$11,000, chartered; Geo. E. Routh, Jr., Pres.; A. E. Pinard, Sec.

Mo., St. Louis—The B. B. Hanak Co., capital \$15,000, incorporated; Oscar Wolff, 1819 S. Newstead St., Pres.; Charles F. Meyer, Sec.

Mo., St. Louis—World Utilities Corp., capital \$50,000, chartered; J. A. Alfermann, Pres.; Arthur Lorenz, Sec.

Mo., St. Louis—C. E. O'Donnell Printing Co., 1421 Olive St., capital \$10,000, incorporated; C. E. O'Donnell, Herman Diethop.

Mo., St. Louis—The S. and S. Electric Co., incorporated; Samuel C. Sachs, Herman Spehrer, 5740 Julian Ave.

Mo., St. Louis—Ray R. Rosemond Construction Co., 5342 Quinicy St., incorporated; Ray R. Rosemond, Roy S. Voight.

Mo., St. Louis—St. Louis Lipman Co., capital \$15,000, incorporated; L. H. Degenhardt, R. L. Sparks, 5328 Delmar St.

Mo., St. Louis—Champion Electric Icer Co., capital \$75,000, incorporated; G. A. Bobyne, J. K. Stewart, Valley Park.

Mo., St. Louis—Arthur P. Smith Construction Co., incorporated; A. P. Smith, G. J. Tremayne, 1449 Carr Lane.

Mo., St. Louis—Wiese Printing Co., capital \$50,000, incorporated; H. E. Wiese, 4528 Enwright; D. G. Barnes.

Mo., St. Louis—St. Louis Stars Base Ball & Amusement Co., capital \$100,000, incorporated; Lewis A. Brown, 3922 W. Belle St., Geo. B. Key.

Mo., St. Louis—J. M. Steele Construction Co., capital \$20,000, incorporated; J. M. Steele, W. L. Hensley, 6189 Minster St.

Mo., St. Louis—Arctic Ice Cream Co., 4424 W. Papin St., increased capital, \$75,000 to \$100,000.

Mo., St. Louis—St. Louis Law Printing Co. increased capital to \$100,000.

Mo., St. Louis—See Land Development.

N. C., Asheville—Frank Barber, Propr. Inland Press, contemplates building \$50,000 addition to present plant, 3-story, 50 ft. frontage on Market St., fireproof; plans placing entire mechanical department on one floor.

N. C., Asheville—Asheville Motion Pictures Corp., capital \$1,000,000, chartered; E. E. Reed, Fairmount Rd.; N. E. Gennett.

N. C., Chadbourn—Chadbourn Hotel Co., capital \$35,000, incorporated; J. A. Brown, D. W. Monroe.

N. C., Charlotte—Sanders, Smith & Co.,

capital \$100,000, incorporated; Harry L. Sanders, A. L. Smith, 702 N. Tyron St.

N. C., Charlotte—North Carolina Refrigerator Products Corp., capital \$50,000, chartered; H. L. Devenport, P. C. Whitlock, Law Bldg.

N. C., Charlotte—Engineering Specialties Corp., chartered; W. H. Porcher, R. I. Dalton, Whiten Bldg.

N. C., Charlotte—Barber Manufacturing Co., capital \$30,000, incorporated; Thomas Burke, Wm. W. Cunningham, Lawyers Rd., County.

N. C., Durham—Krexene Chemical Co., incorporated; Ellis D. Jones, C. B. Curley.

N. C., Fayetteville—Fayetteville Paper Co., Inc., capital \$50,000, chartered; C. L. Fiske, A. G. Smith.

N. C., Greensboro—Holmes E. Penn of Greensboro and Howard L. Penn of Madison have taken over plant of B. B. Phillips Manufacturing Co., on E. Bragg St.; will manufacture men's handkerchiefs; contemplate improvement; increasing weekly output from 750 doz. to 3000 doz.

N. C., Kinston—Memorial General Hospital, Inc., capital \$75,000, chartered; Vance P. Peery, Paul F. Whitaker.

N. C., Waynesboro—Independent Coach Line, Inc., capital \$30,000, chartered; W. L. Massie, H. L. Davis.

Okla., Oklahoma City—Union Bus Line Co., capital \$10,000, chartered; John L. McClelland, 307 W. 17th St.; John Brothers; have acquired about 30 new busses, begin operations within 30 days.

Okla., Oklahoma City—Central Bridge & Construction Co., capital \$50,000, incorporated; J. B. Klein, Terminal Bldg.; Truman Evans.

Okla., Ponca City—Home Laundry Co. let contract for \$25,000 addition to plant.

Okla., Tulsa—The Orpheum Drug Co., capital \$25,000, incorporated; W. H. Thompson, 1511 S. Baltimore St.; Chas. S. Younkin.

S. C., Gaffney—The Gaffney Wrecking Co., incorporated; E. R. Parker, Gaffney; Ralph Dnopley, Cincinnati, Ohio.

S. C., Hartsville—The Hayes Bus Line, Inc., capital \$20,000, incorporated; Chas. T. Hayes, Pres.

S. C., Rock Hill—The Moore-Sykes Co., capital \$20,000, incorporated; J. B. Sykes, Pres.; F. H. Moore, Sec.

Tenn., Knoxville—New-Vim Manufacturing Co., capital \$10,000, incorporated; A. C. Willis, R. J. Wininger.

Tenn., Knoxville—Tennessee-Colorado Marble Co. T. O. Crouch, V. P., reported, erect 180x200-ft. plant adjoining present structure, concrete, steel and glass; Manley, Young and Meyer, Archts., Knaflle Bldg.; company formed by consolidation of Gray-Knox Marble Co. and the Colorado-Yale Co.

Tenn., Knoxville—E. B. Bowles & Co., Inc., chartered; E. B. Bowles, Pres.; R. B. Clift, Sec.; manufacturers' agents.*

Tenn., Knoxville—Interurban Bus Terminal Co., incorporated J. G. Carson, D. B. Burns.

Tenn., Memphis—The Wilmer Supply Co., reorganized; C. M. Wilkinson, Richard C. Meade, changed name from The Wilmer Veterinary Supply Co.

Tenn., Memphis—Sunday School Supply Co., 64 Madison Ave., incorporated; Z. T. Forsythe, Chas. E. Conrad.

Tenn., Memphis—Tivoli Building Corp., capital \$10,000, incorporated; Kenneth Raymey, E. R. Speigel.

Tenn., Memphis—Nurro Glass Manufacturing Co. of Bloomington, Ind., let following contracts: For general construction to F. J. Ozanne, Madison Ave. Bldg.; electric wiring and fixtures, to Electric Novelty Co., 24 Monroe St.; plumbing to Cronin, Baker & Tindal, 339 Madison Ave.; heating to Fisher Heating Co., and sprinkler system to Globe Automatic Sprinkler Co. mill construction,

brick walls, concrete floors, Monitor skylights fitted with modern steel sash daylight illumination system; equipped with high-pressure steam plant; estimated cost \$75,000; E. L. Harrison, Archt., Fidelity Bank Bldg.*

Tenn., Memphis—The House Furnishing Co., 145 N. Main St., capital \$20,000, incorporated; Joseph Fortas, E. L. Lerner.

Tenn., Memphis—Dixie Pecan & Walnut Co. changed name from the Neil Goodman Co.

Tenn., Memphis—Woman's Hospital of Memphis, capital \$200,000, incorporated; Fred Callahan, Fidelity Bank Bldg.; John E. Swepston.

Tenn., Nashville—Interurban Bus Terminal, incorporated; J. G. Carson, Oscar M. Dunn.

Tenn., Nashville—Berry Demoville & Co., capital \$360,000, incorporated; F. A. Berry, Franklin Pk.; Annie Demoville.

Tenn., Oneida—See Ice and Cold Storage.

Tenn., Rogersville—Heck-Shanks Hardware Co., incorporated; M. B. Heck, O. E. Shanks.

Tex., Beaumont—Beaumont-Hamshire Fig Co., capital \$25,000, incorporated; J. E. Broussard, 1614 College; H. E. Bertram.

Tex., Cooper—W. H. Jones Co., capital \$15,000, incorporated; Marshall Jones, W. H. Jones, Jr.

Tex., Columbus—Columbus Concrete Products Works, incorporated; L. E. Paulsen, Geo. Becker.

Texas, Dallas—Cohen Lockett Manufacturing Co., capital \$33,000, incorporated; Israel Cohen, W. H. Lockett, 612 S. Peake.

Tex., Dallas—Dallas Investors Corp., capital \$150,000, chartered; J. B. Martin, I. H. Edmondson, 5354 Vickery.

Tex., Dallas—Hauk-Mennis Construction Co., capital \$25,000, incorporated; G. W. Mennis, W. R. Worley.

Tex., Dallas—Standard Bedding Co., incorporated; R. D. Allen, A. A. Miller.

Tex., El Paso—The Elliott Engineering Co., capital \$25,000, incorporated; Fred A. Elliott, 3101 Copper St.; W. Frank Lucas.

Tex., El Paso—El Paso Tent and Awning Co., capital \$40,000, incorporated; W. K. Hill, 129 San Francisco; Gowan Jones.

Tex., Fort Worth—Fort Worth & Denver South Plains Railway Co., capital \$200,000; Hale Holden, K. M. Van Zandt; to construct railroad.

Tex., Greenville—Red Ball Stage Lines, Inc., capital \$25,000, chartered; C. Y. Partain, J. M. Griffin.

Tex., Greenville—Banner Publishing Co., Fred Horton, Mgr., Lee St., let contract to J. P. Glover, Greenville, for brick building, concrete floors, tin roof; install machines, presses, etc., for newspaper printing.*

Tex., Houston—Stationers, Lithographers—The Cargill Co., Frank C. Clemens, Pres., 409 Fannin St., let contract to Don Hall, Cotton Exchange Bldg., Houston, for \$200,000 building on Capitol and Brazos St.; Grinnell Co., Providence, R. I., will install sprinkler system; Star Electric Co., 1303 Capitol St., Houston, wiring; Woods Electric Co., 709 Travis, and Caywood Electric Co., both Houston, fan fixtures; Wareen Co., plumbing, and Lee Rogerson, heating, both Houston; steel shelving, files, etc., furnished by Art Metal Co. of Jamestown, N. Y., and Yaeman & Erbe Manufacturing Co. of Rochester, N. Y.; building to be reinforced steel, concrete and brick, with 50,000 sq. ft. capacity; roof of factory to be saw tooth; individual lockers for employees, drinking fountains, etc.*

Tex., Houston—Caywood, Inc., capital \$30,000, chartered; C. J. Caywood, 742 E. 10½ St.; E. A. Hester.

Tex., Houston—Seaport Electric Co. incorporated; Fred C. Cargill, W. S. H. Minchen.

Tex., Kerrville—Sunshine Laundry Co. let contract to Walsh & Burney, 928 N. Flores St., San Antonio, at \$12,000 for laundry building, 1-story, 40x100-ft., brick, stone, tile

and stucco; Adams & Adams, Archts., Gibbs Bldg., San Antonio.*

Tex., Lubbock—Lubbock Hotel Co., capital \$150,000, incorporated; R. W. Blair, E. L. Klett.

Tex., Lufkin—A. H. Hargis of Dallas, leased plant of the East Texas Syrup Corp.; will manufacture compound syrups, etc.

Tex., Olney—W. C. Harrell Co., capital \$50,000, incorporated; W. C. Harrell, Wm. Thomas.

Tex., San Antonio—Wallace N. Robinson Hotels Co., capital \$150,000, incorporated; Wallace N. Robinson, 4219 S. Presa St.; L. R. Wright.

Tex., Wichita Falls—Wichita Falls Window Glass Co. has purchased additional machinery, double capacity of plant.

Va., Alexandria—The Phoenix Manufacturing Co., incorporated; Geo. C. Honein, Pres.; Max Sperling, Sec.

Va., Danville—Parrish-Ellis Co., capital \$10,000, incorporated; Walter R. Parrish, Pres.; D. B. Gardner, Sec., 431 W. Main St.

Va., Galax—The Virginia Extract Co. will rebuild burned plant.

Va., Lynchburg—W. C. Thomas Tobacco Co., Inc., capital \$500,000, chartered; W. C. Thomas, Pres.; A. F. Thomas, Sec.-Treas., W. Lynchburg; take over interests of the John E. Hughes Co.; buildings fully equipped.

Va., Norfolk—Intensive Farms, Inc., capital \$50,000, chartered; John V. Groner, Leigh Apt.; F. W. McKinney.

Va., Richmond—The Servel Corp., chartered; Harry G. Beaber, Pres., New York; Wm. W. Crump, Sec., Mutual Bldg., Richmond.

Va., Richmond—Albemarle Paper Co., Tredgar St., reported to have let contract for 4-story addition to plant, reinforced steel and concrete, estimated cost \$200,000. Company advises: Contracts will not be let before latter part of this week or first of next.

Va., Suffolk—Suffolk Milling Co., capital \$50,000, incorporated; A. B. Burden, Pres., Aulander, N. C.; J. W. Simmons, Sec., 108 S. Broad St., Suffolk.

W. Va., Keyser—Polino Construction Co., capital \$10,000, incorporated; Sam C. Polino, J. P. Blundon.

W. Va., Charleston—Abbot Construction Co., capital \$50,000, incorporated; H. R. Abbot, 602 Ruffnet Ave.; L. L. Abbot.

W. Va., Fairview—Waterproof Shoe Co., capital \$50,000, incorporated; Pat Delre, Roy Dariani.

W. Va., Martinsburg—The Farmers' Dairy, Inc., will occupy building of old Martinsburg Sanitary Dairy; expend \$10,000 on improvements.

W. Va., Martinsburg—Farmers' Dairy, Inc., capital \$10,000, chartered; S. T. Brown, Elmer D. Seibert.

W. Va., Morgantown—The Hardware Sales Co., capital \$10,000, incorporated; J. D. Hughart, G. H. Hanna.

W. Va., Ravenswood—Ravenswood Printing Co., incorporated; H. W. Casta, C. A. Dye.

W. Va., Wheeling—Hotel Chaplane Co., capital \$25,000, incorporated; J. M. Ritz, 459 National Rd.; A. M. Seabright.

W. Va., Williamstown—Virginia June Rose Product Co., capital \$10,000, incorporated; C. E. Lucas, S. O. Locas.

Motor Cars, Garages, Tires, Etc.

Ala., Birmingham—Superservice Station, incorporated; Frank Stevens, W. A. Smith.

Fla., Daytona—Goreau Motors Corp. of New Orleans, La., W. G. German, Asst. to Pres., contemplates establishing plant.

Fla., Daytona—John McNamara will erect filling station at Auditorium Blvd. and Coates St.

Fla., Jacksonville—Standard Oil Co. let contract to O. P. Woodcock, Duval Bldg., Jacksonville, at \$50,000, filling station corner

St. Johns and Forest Ave.; brick, concrete and steel; double station, facing 105 ft. on both streets.

Fla., Miami—Dixie Motor Bus Distributors, Inc., capital \$50,000, chartered; Edward Bell, Pres.; H. D. Nordlie, Sec.

Fla., Miami—Cadillac Development Corp., capital \$250,000, chartered; John P. Grace, Pres.; John S. Cosgrove, Sec.

Fla., Miami—Miami Tire Co., N. O. Penny, Pres., 13 N. E. First St., let contract to J. M. Knight, Miami, for \$65,000 building, 3-story, 50x150-ft., reinforced concrete, with concrete floors and roof; J. Phillips Turner, Archt., 152 E. Flagler St.*

Fla., Tampa—West Coast Motor Co., capital \$10,000, incorporated; I. H. Weller, Pres.; M. H. Weller, Jr., Sec.

Fla., Tavares—Pan-American Oil Co. acquired site; will erect filling station.

Fla., Tavares—Gulf Refining Co. will erect filling station on Irma St., acquired site.

Fla., Tavares—Standard Oil Co. will erect filling station; acquired site on Irma St.

Ga., Savannah—Metter Oil Co., U. S. Jones, Propr., will erect filling station on Lewis St. near Broad.

Md., Baltimore—E. H. Koester, 648 W. Lexington St., has acquired small building of the Mt. Vernon-Woodberry Cotton Duck Mills; will be occupied by Frank G. Schenuit, for the manufacture of automobile tires, now located at Mt. Royal and Dolphin St.

Md., Baltimore—City contemplates building \$35,000 repair shop at Key Highway and Webster St. for Fire Dept.; Chas. H. Osborne, Inspector of buildings.

Md., Baltimore—The Industrial Realty & Finance Co., Gaither Bldg., erect twenty-nine 1-story, brick garages, corner York Rd. and Oakland Ave.; cost \$22,000; construction by owner; Chas. T. McClure, Archt.

Md., Baltimore—Virginian Garage, Inc., 1304 N. Calvert St., capital \$10,000, chartered; Thomas E. Ellis, Geo. L. Keister.

Md., Baltimore—The Motorade Corp., 922 Equitable Bldg., capital \$100,000, chartered; Milton Hyman, Louis S. Garfinkel.

Miss., Camden—Camden Motors Co., capital \$10,000, incorporated; O. J. and D. O. Harrelson.

Miss., Jackson—Standard Oil Co., will erect filling station on N. State St.

Mo., Kansas City—Much-More Service Co., 3214 Troost Ave., incorporated; Geo. G. Muchmore, Stephen Muchmore.

Mo., St. Louis—Vehicle Top & Body Co., incorporated; Louis E. Lueschaw, 3507 Junia St.; Allen H. Clark.

Mo., St. Louis—Metropolitan Nash Co., capital \$25,000, incorporated; C. L. O'Brien, A. W. Becker.

Mo., St. Louis—3-in-1 Manufacturing Co., 3630 S. Grand Ave., incorporated; Wallace R. Wicks, L. D. Honig.

Mo., St. Louis—La Grave Automobile Co., capital \$15,000, incorporated; J. A. La Grave, 7417 Richmond St.; H. J. La Grave.

N. C., Kinston—Eugene Weed, N. Queen St., will erect filling station corner Mc Lewean and North Sts.; concrete and stone, metal roof.

N. C., Raleigh—Velle Motor Sales, Inc., capital \$50,000, chartered; E. W. Lawrence, Fuquay Springs; M. R. Guyer, Raleigh.

Tenn., Chattanooga—Rice Brothers, Rossville Ave. will erect \$10,000 garage, 1-story, 50x135-ft. brick.

Tenn., Memphis—Highland Motor Co., incorporated; P. W. Joplin, Wm. O. Pennell.

Tenn., Nashville—Dorris, Davis Motors, Inc., capital \$20,000, chartered; Lewis R. Dorris, E. D. Davis, Murphy Rd.

Tex., Alice—J. J. Dennison will erect garage and filling station, brick and concrete; acquired site.

Tex., Corpus Christi—J. W. McMeehan, Chapel St. will erect \$14,000 garage, 2-story, 60x75-ft., reinforced concrete and tile; R. H. Hilton, Archt., San Antonio.

Tex., Knox City—Mullins-Edwards Co., capital \$10,000, incorporated; R. L. Mullins, T. S. Edwards.

Tex., Greenville—Best Filling Station & Tire Co., capital \$10,000, incorporated; C. A. Fagg, D. H. Bolbitt.

Tex., Paris—Lamar Chevrolet Co., capital \$20,000, incorporated; J. A. McGill, J. C. Deshong.

Tex., Ranger—Victory Service Co., capital \$50,000, incorporated; W. W. Edrington, J. L. Edrington.

Tex., San Antonio—Guarantee Motor Co. care of J. F. Hagan, 240 E. Romana St., reported to erect garage, brick or tile and stucco.

W. Va., Martinsburg—The Union Sales Co., B. A. Poland, Pres.-Mgr., E. Race St., will expend \$18,000 on alterations and improvement to present garage.

W. Va., Mount Hope—The R. A. McCuaig, Inc., capital \$25,000, chartered; W. L. Trayer, Edward L. Roberts.

W. Fairmont—Standard Tire Co., Inc., chartered; Miller McNulty, John L. Gill.

Railways

Tex., Estelline—Fort Worth & Denver South Plains Railroad Co. is chartered to build about 200 miles of railroad from Estelline to points in Hall, Briscoe, Swisher, Castro, Hale, Crosby, Floyd and Lubbock counties, including a line directly west to Dimmitt, about 100 miles, and another southwest to Lubbock, about the same distance. J. H. Barwise, general solicitor of the Colorado & Southern Pines, Fort Worth, Tex., or J. A. Hulen, traffic manager of the Fort Worth & Denver City Railway, Houston, Tex., can give information.

Railway Shops, Terminals, Round-houses, Etc.

Miss., Natchez—The Natchez & Southern Ry. Co., O. O. Ogden, V.-P. and Gen. Mgr., reported will erect roundhouse, machine shop and 30,000-gal. capacity water tank; grading begun.

Road and Street Construction

Ala., Alexander City—City plans expending \$38,000 to pave 6 streets, including Jefferson, Broad, Green, etc.; Portland cement concrete paving with integral curb and gutter, or sheet asphalt paving with Portland cement concrete base, asphaltic binder course; E. A. Coley, Clk.

Ala., Birmingham—City receives bids Mar. 24 to grade, lay granite curb, concrete gutter, asphaltic concrete, bitulithic or brick paving, sidewalks and certain sanitary sewers; A. J. Hawkins, City Engr.

Ala., Gadsden—Etowah County plans hard surfacing Hokes Bluff pike from East Gadsden to county farm; also plans resurfacing road from river bridge to Hoffman Place with tarmac. Address County Commsr.

Ala., Tuscaloosa—City Commsr. receive bids Apr. 7 for Portland cement concrete street pavement: 69,618 sq. yd. pavement, 18,894 lin. ft. 6-in. integral curb, 3056 lin. ft. combined curb and gutter, 6490 sq. yd. sidewalks, 17,719 cu. yd. grading, 7051 lin. ft. 4-in. integral curb, 6 brick inlets or catch basins; plans from W. H. Nicol, City Engr.; D. B. Robertson, Pres.

Ala., Tuscaloosa—See Land Development.

Ark., Greenwood—City plans paving Sycamore St. with shale from Main St. to top of hill near school. Address City Clk.

Ark., Pine Bluff—City Commsr. receive bids Mar. 20 for 8000 sq. yd. reinforced or vibrolithic concrete pavement, with combination curb and gutter, necessary storm sew-

ers, in Improvement Dist. No. 72; estimated cost \$35,000; plans from Guest Engineering Co., Engr., 329½ Main St., Pine Bluff.*

Fla., Bartow—Polk County Commrs. plan road building in Road and Bridge Dist. No. 13; contemplates \$325,000 bond election.

Fla., Bartow—See Land Development.

Fla., Bartow—Polk County Commrs. plan 14 roads, totaling 31½ mi., including 8 mi. from Foxtown to Polk City; plans Special Road and Bridge Dist. No. 12; votes April 7 on \$625,000 bonds.

Fla., Bartow—See Land Development.

Fla., Blountstown—Calhoun County plans 20 mi. beach drive along St. Joseph's Bay, and 40 mi. along gulf beach from St. Andrew's Bay. Address County Commrs.

Fla., Bonita Springs—See Land Development.

Fla., Clearwater—Pinellas County plans road improvement in Special Road and Bridge Dist. No. 11: Pave Disston Ave. from city limits to Haynes road; Clearview from Haynes road to Jungle; John's Pass road, from Euclid to Disston Ave.; road along Seaboard Air Line Ry., from Clearview to Pasadena; pave Ninth Ave. from railroad crossing to Disston Ave.; voted \$1,000,000 bonds. Address County Commrs.*

Fla., Clearwater—Pinellas County plans widening State Road No. 15, including trunk line from Tarpon Springs through Clearwater and Largo; C. E. Burleson, County Engr.

Fla., Cocoa—See Land Development.

Fla., Davenport—Town receives bids March 24 for 101,000 sq. yd. street paving, 100,000 lin. ft. concrete curb and gutter, 45,000 sq. yd. concrete sidewalks, also grading, storm drainage and appurtenances; plans from Chas. A. Crisp, Clk., and E. V. Vamp and associates, Conslt., Supvg. and Testing Engrs., Atlanta, Ga., Bartow and Jacksonville.

Fla., Dania—Town plans improving Dixie Ave. through town; contemplates \$100,000 bond issue; Henry T. Tubbs, Mayor.

Fla., Fort Lauderdale—See Land Development.

Fla., Fort Myers—See Land Development.

Fla., Haines City—City plans 5 mi. street paving, extending sewer and water systems, constructing sewerage disposal plant; also 2 bridges on main state highway at Melbourne Ave.; over main line Atlantic Coast Line R. R.; Jess P. Ferrill, City Mgr.

Fla., Lake City—Palatka-Lake City Short Route Assn., organized; S. P. Bailey, Sec. and Mgr., Lake City Chamber of Commerce, Sec.; contemplates highway from Lake City to Palatka, through Columbia, Union, Bradford, Clay and Putnam Counties.

Fla., Key West—Monroe County Commrs. plan 4 roads and seawall; voted \$2,650,000 bonds: complete Key West to Key Largo road, \$2,000,000; ocean front boulevard and seawall around Key West, \$500,000; Tamiami Trail, \$100,000; Cape Sable road, \$50,000.*

Fla., Lake Maitland—Town receives bids Apr. 2 for 28,031 sq. yd. brick, concrete or bituminous pavement, 4948 lin. ft. concrete curb and gutter, 18,338 lin. ft. concrete flush curb, 14,260 lin. ft. wood flush curb, 1340 lin. ft. 15 and 18-in. storm drains, 4 manholes, 6 storm inlets, 7261 cu. yd. excavation; plans from J. B. McCrary Engineering Corp., Engr., Atlanta, Ga., Orlando, or S. B. Hill, Jr., Clk.

Fla., Largo—Town Commrs. let contract to The J. B. McCrary Co., Atlanta, at \$400,000 for paving improvement; J. C. English, Town Mgr.

Fla., Miami—See Land Development.

Fla., Ocala—City let contract to C. R. Scott Co., Lakeland, for 12 mi. asphalt street paving; Edward Drake, City Mgr.

Fla., Orlando—Orange County plans hard surfaced Orlando-Fairville road, from Orlando County Club grounds to Fairville station.

Fla., Palmetto—See Land Development.

Fla., Plant City—See Land Development.

Fla., Saint Augustine—State Road Dept., Tallahassee, receives bids April 3 to grade and construct 3 concrete bridges and 18 box culverts on 14.967 mi. Road No. 4, St. Johns County, from Duval County line to Saint Augustine; plans on file and from Div. Engrs., J. L. Cresap, State Highway Engr.

Fla., Sarasota—Sarasota County receives bids Mar. 30 to improve 31 mi. roads through county, rock base and pave part; clear, grub, rock base and drainage structures on balance; estimated cost \$335,000; Chas. H. Wadsworth, County Engr.*

Fla., St. Petersburg—City plans opening First Ave. from Capac to Ninth; votes May 12 on \$490,000 bonds. Address City Clk.

Fla., Tampa—See Land Development.

Fla., Tampa—State Road Dept., Tallahassee, received low bid from W. P. Bryson, Jacksonville, at \$54,674, for 12.1 mi. State Road Dist. No. 5, Hillsborough County, from Six Mile Creek south, using present brick structure.*

Fla., Tarpon Springs—Tarpon Springs Enterprise, Inc., plans expending about \$1,000,000 to widen Broadway, formerly Pinellas Ave., to 80 ft., pave roadway with brick, lay 15-ft. concrete sidewalk and install white way, etc.

Fla., Titusville—Brevard County, Road Dist. No. 1 plans completing road from Orlando highway into Titusville; voted \$60,000 bonds. Address County Commrs.

Fla., Titusville—City plans widening and paving streets; voted \$150,000 bonds; J. P. Wilson, City Clk.*

Fla., Winter Haven—See Land Development.

Ga., Atlanta—Fulton County Commrs. appropriated \$24,500 for grading on school property.

Ky., Ashland—City, H. L. Carroll, Clk., receives bids Mar. 20 to grade and pave with brick, bituminous macadam, Kentucky rock asphalt or concrete 5 avenues in Graysonia Subdivision, including Algonquin, Shawnee, etc., 8448 cu. yd. excavation, 8300 lin. ft. curb and gutter, 10,796 sq. yd. paving, 8 inlets; plans from City Engr.; W. M. Salisbury, Mayor.

La., Baton Rouge—See Land Development.

Ky., Bowling Green—Board of Public Works let contract to Ray Price for 16 blocks asphalt street and concrete gutters.

La., Clinton—Louisiana Highway Comm., Raymond Bldg., Baton Rouge, receives bids Apr. 7 for 2.61 mi. gravel Slaughter-Mississippi Highway, East Feliciana Parish, from Norwood to point about ¾ mi. north of Wilson; plans on file; W. B. Robert, State Highway Engr. (See Machinery Wanted—Gravel.)*

La., Gretna—Louisiana Highway Comm., Raymond Bldg., Baton Rouge, receives bids Apr. 14 for 2 sections gravel New Orleans-Baton Rouge Highway, Jefferson Highway, Sec. A, 3.721 mi. from Kenner to point 1 mi. from Harahan; Sec. B, 3.794 mi. through Harahan to Shrevebury; plans on file; W. B. Robert, State Highway Engr. (See Machinery Wanted—Gravel.)*

La., Lake Charles—City plans expending \$152,000 for 3.6 mi. street paving, 52,287 sq. yd.; J. A. Trott, Mayor.

La., Monroe—Louisiana Highway Comm., Raymond Bldg., Baton Rouge, let contract to N. N. George Construction Co., Shreveport, at \$75,000 for 4.73 mi. gravel surface Monroe-Jonesboro Highway, Ouachita Parish, from point near Eros to Cadeville.*

La., Shreveport—City plans paving Fetzer Ave. from Texas Ave. to city limits with Warrenite process. Address Mayor Thomas.

Maryland—State Roads Comm., 601 Gar-

rett Bldg., Baltimore, let contracts for oiling 7 sections of roads/ Dist. No. 2, Cecil, Kent, Queen Anne's, Caroline and Talbot Counties, 66,200 gal., Edw. P. Pendleton, 16 S. Calverton Rd., Baltimore, \$9469; Dist. No. 3, Howard, Prince Georges, Montgomery Counties, 108,943 gal., Edw. P. Pendleton, \$14,598; Dist. No. 3-A, Anne Arundel, Calvert, Charles and St. Mary's Counties, 385,446 gal., Barrett Co., 36 Gray's Ferry, Philadelphia, \$57,816; Dist. No. 3-B, Calvert County, 146,742 gal., Barrett & Co., \$24,946; Dists. No. 4 and 7, Anne Arundel, Baltimore and Harford Counties, 154,867 gal., Atlantic Refining Co., of Philadelphia, \$21,325; Dist. No. 5, Carroll, Frederick, Howard and Montgomery Counties, 182,350 gal., Earle-Landsdale Co., Hackensack, N. J., \$25,510; Dist. No. 6, Garrett, Allegheny, Washington and Frederick Counties, 173,817 gal., Barrett Co., of Philadelphia, \$25,551.*

Md., Baltimore—City, let contract to Peter Averza, 2006 Bank St., at \$28,055, for cement concrete footways; C. W. Whittle, Engr., 811 N. Lakewood Ave.*

Md., Baltimore—Paving Comm., Nathan L. Smith, Acting Engr., 214 E. Lexington St., plans paving 8 additional streets, including Farley and Henry St., Morling Ave., etc., with sheet asphalt, cement concrete; Howard W. Jackson, Mayor; Bernard L. Crozier, Highways Engr.

Md., Baltimore—City Paving Comm., Samuel C. Rowland, Acting Chmn., 214 E. Lexington St., plans improving 7 streets, including Greenwood, Lanier, Aragon Ave., Woodlea road, etc.

Md., Baltimore—Board of Awards receives bids Mar. 25 to grade and pave with concrete cement alleys in Alley Cont. No. 113; plans on file; Howard W. Jackson, Mayor; Steuart Purcell, Ch. Engr.; Bernard L. Crozier, Highways Engr.

Md., Baltimore—Board of Awards receives bids Mar. 25 to grade and pave with concrete cement footways in Footway Cont. No. 85; plans on file; Howard W. Jackson, Mayor; Steuart Purcell, Ch. Engr.; Bernard L. Crozier, Highways Engr.

Md., Baltimore—Board of Awards let contract to Arundel Construction Co., Knickerbocker Bldg., to pave alleys with concrete in Cont. No. 112, estimated cost \$18,000.*

Md., Baltimore—City, V. Bernard Siems, Water Engr., plans road from Montebello Drive to Sydenham hospital; Howard W. Jackson, Mayor; Steuart Purcell, Ch. Engr.

Md., Salisbury—City plans 6000 to 7000 ft. curb and gutter on various streets. Address Engr. Dryden.

Miss., Ackerman—Choctaw County Board of Supervrs. plans building 2 Federal highways, one east and west, and one north and south, also gravel or improve 4 roads in other sections; voted \$271,000 bonds.*

Miss., Batesville—Panola County, Board of Supervrs., receive bids April 6 for 3.117 mi. road being part of State Trunk Road, between New Orleans and Memphis; H. C. Dieter, State Highway Engr., Jackson.

Miss., Charleston—Tallahatchie County, Board of Supervrs., Beat 3, plans road connecting Charleston with Grenada, via Murfreesboro, Rosebloom and Cascilla; votes March 28 on \$80,000 bonds.

Miss., Gulfport—Harrison County, Board of Supervrs., Emile J. Adams, Pres., plans 105 mi. highways in County, and concrete bridge across Back Bay of Biloxi; voted \$1,500,000 bonds.*

Miss., Laurel—Jones County Board of Supervisors plans building 3 highways in upper part of Beat 3, including road between Laurel and Wayne County line of Waynesboro Highway; voted \$75,000 bonds.*

Miss., Lexington—Holmes County, Board of Supervrs., Beat 2, plans improving section Jef-

erson Davis Highway, between West and Pickens; votes April 4 on \$40,000 bonds.

Miss., Magnolia—Pike County, Board of Supervisors, Fourth Road Dist., plans road from Walker's Bridge to McComb and certain connecting links; votes April 4 on \$125,000 bonds.*

Miss., Woodville—Wilkinson County, Board of Supvrs., plans 4 gravel roads: To Louisiana line south of Woodville, connecting Prentiss Highway with gravel road west of West Feliciana; Fort Adams road to district line; Lower Natchez road to Lanehart; Percy's Creek road to district line, in First Supvrs. Separate Road Dist. of Wilkinson County; voted Apr. 11 on \$100,000 bonds. Address County Comms.*

Missouri—State Highway Dept., Jefferson City, let contracts for 57 roads: Audrain County, 3,939 mi. 18-ft. gravel from Mexico east, H. S. Worman, Perryville, \$34,587; Caldwell County, 2,765 mi. 30-ft. graded earth, Hamilton to Polo, Land Construction Co., St. Joseph, \$26,523; Cass County, Harrisonville to Pleasant Hill, 4,315 mi. 18-ft. gravel, Ben D. McCally & Son, Reneslear, Ind., \$35,117; 4,634 mi. 18-ft. gravel, Dexter Construction Co., Dexter, \$34,101; Crawford County, to Harrison Engineering & Construction Corp., 506 Mutual Bldg., Kansas City, 4,708 mi. earthwork, Bourbon to Sullivan, \$7176; 4,708 mi. 180-ft. concrete, \$86,507; 3,943 mi. earthwork, Cuba to Bourbon, \$5916; 3,943 mi. 18-ft. concrete, \$72,454.

In Davies County, 4,811 mi. 18-ft. gravel, Gallatin east, Kiefner & Geile, Perryville, \$16,441; Dunklin County, 2,178 mi. 12-ft. gravel, Malden west, Richmond Construction Co., Advance, \$18,855; 2,397 mi. 12-ft. gravel, Wilhelmina east, Dexter Construction Co., Dexter, \$15,119; Franklin County, to Harrison Engineering & Construction Co., Kansas City, 4,685 mi. 18-ft. concrete, St. Louis to Springfield, \$866,087; 4,685 mi. earthwork, \$17,774; 4,965 mi. 18-ft. concrete, Sullivan north and south, \$91,034; 4,965 mi. earthwork, \$15,428; to Tibbetts & Tibbetts, Olathe, Kan.; 4,928 mi. earthwork, Gray Summit east, \$38,528; 9,928 mi. 18-ft. concrete, \$96,753; Gentry County, Albany to Stanberry, Roy Tanner Paving Co., Tulsa, Okla.: 4,809 mi. 9-ft. concrete, \$52,308; 4,898 mi. earthwork, \$19,078.

Harrison County, Bethany north, C. H. Atkinson Paving Co., Watertown, South Dakota, 4,962 mi. earthwork, \$14,026; 4,848 mi. 9-ft. concrete, \$43,520; 4,848 mi. earthwork, \$17,594; Johnson County, Jefferson City to Kansas City, A. A. Davis & Co., Grain Ex. Bldg., Oklahoma City; 2,896 mi. 30-ft. graded earth, \$25,360; .309 mi. 30-ft. graded earth; 4,869 mi. earthwork; 4,869 mi. 18-ft. concrete, \$63,794; 4,868 mi. earthwork; 4,868 mi. 18-ft. concrete, \$63,145; 4,216 mi. earthwork, \$8142; 4,216 mi. 18-ft. concrete, \$55,652; 4,659 mi. earthwork; 4,659 mi. 18-ft. concrete, \$61,393; Macon County, 3,934 mi. 30-ft. graded earth, St. Joseph to Hannibal, Gray Construction Co., Mt. Vernon: 3,540 mi. 30-ft. graded earth, Macon east, J. K. McClarin, Alexandria, Mo., \$9327.

In Marion County, St. Joseph to Hannibal, C. H. Atkinson Paving Co., 2,888 mi. 18-ft. concrete, \$30,805; 2,888 mi. earthwork. Monroe to Hunneville, C. H. Atkinson Paving Co., 3,134 mi. 18-ft. concrete, \$34,755; 3,134 mi. earthwork, \$15,176; Pemiscot County, 2,083 mi. earthwork, Hayti to Kenneth, Dexter Construction Co., \$11,807; Polk County, 1,135 mi. 16-ft. gravel, Fairplay to Bolivar, Easley Bros., Aurora, \$10,200; Shelby County, .35 mi. 30-ft. graded earth, St. Joseph to Hannibal, Vincennes Bridge Co., Vincennes, Ind., \$7935; to C. H. Atkinson Paving Co., 4,940 mi. 18-ft. concrete, Shelbina to Lokenan, \$52,150; 4,940 mi. earthwork, \$20,825; 2,980 mi. earthwork, Hunnewell east and west, \$40,684; 2,980 mi. 18-ft. concrete; 2,615 mi. 18-

concrete, Lakenan to Hunnewell, \$27,341; 2,615 mi. earthwork, \$20,202.

In Webster County, from St. Louis to Springfield, D. C. Horton, Fort Smith, Ark.; 4,793 mi. earthwork, \$7788; 4,793 mi. 18-ft. concrete, \$70,857; 3,746 mi. 18-ft. concrete, \$55,388; 3,746 mi. earthwork, \$15,294; 3,898 mi. 18-ft. concrete, \$57,163; 3,898 mi. earthwork, \$8046; 1,784 mi. 18-ft. concrete, \$26,381; 1,784 mi. earthwork, \$8089; Worth County, Grant City to Sheridan, Lamereaux Bros., Omaha, Neb.; .265 mi. 30-ft. graded earth, \$5936; 3,390 mi. 30-ft. graded earth, \$20,644.*

Missouri—State Highway Dept., Jefferson City, receives bids Mar. 28 for 50 roads: Andrew County, 3,427 mi. 30-ft. graded earth from Rochester to Union Star, 34,165 cu. yd. excavation; Atchison County, from Rockport to Fairfax, 3,234 mi. earthwork, 7348 cu. yd. excavation; 3,234 mi. 9-ft. concrete surface, 17,158 sq. yd. concrete, 4,978 mi. earthwork from Rockport east, 24,674 cu. yd. excavation, 1,769 mi. earthwork from Tarkio south, 3538 cu. yd. excavation, 1,769 mi. 9-ft. concrete surface, 9498 sq. yd. concrete; Andrew County, 3,504 mi. 30-ft. graded earth, from Rochester to Union Star, 31,271 cu. yd. earth and rock excavation; Barry County, .395 mi. 16-ft. gravel from Seligman south, 5444 cu. yd. excavation, 4,951 mi. 16-ft. gravel from Washburn to Seligman, 10,325 cu. yd. gravel, 3,098 mi. 16-ft. gravel from Washburn to Seligman, 6461 cu. yd. gravel.

In Boone County, from Kansas City to St. Louis, 4,932 mi. 18-ft. concrete, 51,721 sq. yd. concrete, 4,932 mi. earthwork, 9796 cu. yd. excavation, 4,339 mi. earthwork, 8678 cu. yd. excavation, 4,339 mi. 18-ft. concrete, 45,816 cu. yd. concrete; Butler County, 4,179 mi. 12-ft. gravel from Doniphan to Poplar Bluff, 6597 cu. yd. gravel; Callaway County, from Jefferson City to Fulton, 3,778 mi. 18-ft. gravel, 3,733 mi. 18-ft. gravel, 1320 cu. yd. excavation, 5871 cu. yd. gravel; Christian County, from Ozark south, 3,97 mi. 16-ft. gravel, 4266 cu. yd. 4,104 mi. 16-ft. gravel, 4429 cu. yd., 2,64 mi. 16-ft. gravel, 2798 cu. yd., 3,126 mi. 16-ft. gravel, 3489 cu. yd., 2,944 mi. 16-ft. gravel, 22,126 cu. yd. earth and rock excavation, 3127 cu. yd. gravel.

In Dallas County, from Branch to Buffalo, 4,860 mi. 30-ft. graded earth, 23,513 cu. yd. earth and rock excavation, 4,661 mi. 30-ft. graded earth, 42,617 cu. yd. earth and rock excavation; Greene County, from Jasper south, 1,281 mi. 10-ft. concrete, 12,958 sq. yd. concrete, 1,281 mi. earthwork, 3791 cu. yd. earth and rock excavation; Jasper County, from Carthage to Webb City, 2,633 mi. 18-ft. concrete, 27,805 sq. yd., 2,633 mi. earthwork, 26,007 cu. yd. earth and rock excavation; from Carthage east, 3,488 mi. earthwork, 27,829 cu. yd. earth and rock excavation, 3,488 mi. 18-ft. concrete, 36,467 sq. yd., 4,279 mi. earthwork from Carthage to Webb City, 41,238 cu. yd. earth and rock excavation.

In Lincoln County, 3.6 mi. 16-ft. gravel from Whitfield to Old Monroe, 56,319 cu. yd. earth and rock excavation, 7479 cu. yd. gravel; Mercer County, from Princeton south, 3,78 mi. earthwork, 11,346 cu. yd. excavation, 2,19 mi. earthwork, 12,123 cu. yd. excavation, 2,19 mi. 9-ft. concrete, 11,565 sq. yd., 3,78 mi. 9-ft. concrete, 19,960 sq. yd.; New Madrid County, from Risco east, 3,056 mi. 9-ft. concrete and 7-ft. gravel, 15,739 sq. yd. concrete, 4510 cu. yd. gravel, 3,056 mi. earthwork, 32,706 cu. yd. excavation, 3,182 mi. 9-ft. concrete and 7-ft. gravel, 14,500 sq. yd. concrete, 4510 cu. yd. gravel, 4,056 mi. earthwork, 24,811 cu. yd. excavation.

In Platt County, 2,86 mi. 30-ft. graded earth from Beverly to Leavenworth, 39,036 cu. yd. excavation; Perry County, 4,068 mi. 16-ft. gravel from Longtown to Uniontown,

35,956 cu. yd. excavation, 7431 cu. yd. gravel; Ripley County, from Doniphan to Poplar Bluff, 2,756 mi. 12-ft. gravel, 3798 cu. yd., 1,405 mi. 12-ft. gravel, 2204 cu. yd., 2,374 mi. 12-ft. gravel, 4365 cu. yd.; St. Francois County, 1,85 mi. 30-ft. graded earth, from St. Louis south; Stone County, from Ozark to Branson, 3,55 mi. 26-ft. graded earth, 3,639 mi. 26-ft. graded earth, 6755 cu. yd.; Texas County, 3,42 mi. 30-ft. graded earth, from Mt. Grove to Dunn, 33,144 cu. yd. earth and rock excavation; B. H. Piepmeyer, Ch. Engr.

Mo., Independence—Jackson County, Dan Stewart, County Judge, plans improving 7 roads: 4 mi. from east end of Hickman Mills-Lees Summit, from Longview farm to Lees Summit; 2 mi. Outer Belt road, from Greenwood to State road; 1 mi. Lees Summit road, between county farm and Lees Summit; 1/4 mi. rock road from Automobile Club property to Hickman Mills; 1/4 mi. south end Wornall road extension, from Red Bridge road; complete 2 mi. center section old Independence road from city limits of Kansas City to Fairmount Ave.; grade Winner road, (Washington Park Blvd.).

Mo., Jefferson City—City receives bids Apr. 6 for 4-ft. cement sidewalk on Chestnut St. between High and McCarty St.; plans on file; F. E. Ross, City Engr.

Mo., St. Louis—See Land Development.

Mo., Neosho—City let contract to Henry Kost, Joplin, at \$29,851 to pave 12 blocks on Jefferson St. with 7-in. concrete.*

Mo., Neosho—Newton County plans 8 mi. road between Crawford Corner and Dessa. Address County Comms.

N. C., Asheville—Buncombe County plans expending about \$500,000 for road building. Address County Comms.

N. C., Asheville—City, Buncombe County and State Highway Comm., Raleigh, plan concrete road from Biltmore to West Asheville. Address City Clk. or County Comms.

N. C., Cedar Mountain—See Land Development.

N. C., Elizabeth City—City, M. W. Ferebee, Mgr., receives bids March 30 for 9000 sq. yds. concrete sidewalks, and 4000 lin. ft. concrete curb; plans on file.

N. C., Greensboro—City plans widening Greene St. from Edwards place to O. Henry hotel; E. G. Sherrill, City Clk.

N. C., Hickory—See Land Development.

N. C., Statesville—Iredell County Comms. let contract to Stearns Bros., Statesville, for 6 1/2 mi. concrete base and asphalt top road from Mooresville to Catawba River.

Okla., Duncan—Stephens County Comms. plan hard surfaced road on Lee Highway across southern part of county; Loco, Brown and McPherson Townships vote Apr. 7 on \$243,000 bonds.

Okla., Lawton—Comanche County Comms. plan 5 hard surfaced roads: East to Stephens County line; south to Cotton County line; southwest to Tillman County line; north to Caddo County line; voted \$400,000 bonds; F. P. Aycock, County Clk.*

Okla., Newkirk—State Highway Dept., Oklahoma City, let contract to Maney Brothers Co., Oklahoma City, to grade, drain, erect culverts and raise concrete bridge over Stink Creek on 2 sections of roads, totaling 6 1/2 miles, between Blackwell and Tonkawa.*

Oklahoma—State Highway Dept., Oklahoma City, will receive bids soon for Coodys Bluff-Alliwe and Lenapah-South Coffeyville roads.

Okla., Hugo—City, G. E. Scott, Street Commr., plans repairing streets.

S. C., Columbia—State Highway Comm., plans improving Old State road, between Columbia and Charleston.

S. C., Greenville—See Land Development.

S. C., Laurens—Laurens County plans hard surfacing 2 roads: Section of Highway No. 10, between Watts Mill and city of Laurens;

if the Manufacturers Record is mentioned.

section of Highway No. 2, between Laurens and Clinton, being part of Mountain-to-sea Highway. Address County Comms.

Oklahoma—State Highway Comm., Oklahoma City, let contracts for 7 roads and one bridge in Hughes, Okmulgee and Creek County: Grade and drain 7 mi. from Beggs to Mounds, Pharoah Brothers & Sharp, Henryetta, \$25,447; 8 1/2 mi. from Okmulgee to Okfuskee County line, Ellis & Lewis, Muskogee, \$27,573; Creek County, concrete road from Mannford to Bristow, Henson & Pierce, \$144,988; bridge on Sapulpa-Mounds road, E. G. Fike, Nebraska Bldg., Tulsa, \$5290; Sapulpa-Bristow road, Sam Ward, 540 S. Victor St., Tulsa, \$117,473; road east from Holdenville, Johnson Brothers, Ardmore, \$22,998; 5 mi. grading, drainage structures and 8 mi. gravel road in Hughes County, Standard Paving Co., 1742 E. 6th St., Tulsa, \$264,574.

S. C. Sumter—Sumter County let contract to Pritchard, Raines & Hazelhurst for 3,394 mi. State Route No. 3, J. J. Brennan, Sec. Sumter County Permanent Road Comm.*

Tennessee—Dept. of Highways and Public Works, Nashville, receives bids Mar. 27 to improve 8 roads: Loudon County, 5.23 mi. cement concrete pavement; Gibson County, 9.1 mi. cement concrete pavement; Hawkins County, 10.02 mi. grading, drainage and waterbound macadam surface, with alternate bids for 9 ft. cement concrete pavement; Hardin County, 8.98 mi. gravel, alternate bids for 1 mi. cement concrete and rock asphalt surface; also 5 bridges: Scott County, 12.56 mi. grading and drainage; Gibson County, 14.75 mi. grading and drainage; also 7 bridges: Sumner County, .91 mi. rock asphalt on crushed stone base; Jas. G. Creveling, Jr., State Highway Commr.

Tennessee—Dept. of Highways and Public works receives bids Mar. 27 for 4 roads and 11 bridges: Gibson County, 9.41 mi. cement concrete pavement on State Highway No. 42, between Madison County line and Milam, 99,408 sq. yd. one course plain cement concrete; T. C. McEwen, Div. Engr.: Knox County, 5 mi. concrete from end of Kingston pike to Lenoir City; Polk County, 12.56 mi. grading and drainage on State Highway No. 39, between Benton and Georgia State line, 103,917 cu. yd. common, wet and dry excavation and borrow, also 2 bridges over 20-ft. span; 6 bridges over 20-ft. span on State Highway No. 31, between Helenwood and Kentucky State Line; F. W. Webster, Div. Engr.: Hawkins County, 3 bridges on State Highway No. 66, between Rogersville and Pressman's Home; F. W. Webster, Div. Engr.; J. G. Creveling, Jr., State Highway Engr.

Tenn., Bristol—City let contract to Municipal Paving & Construction Co., Bristol, for paving streets in 3 sections of city.

Tenn., Chattanooga—E. D. Bass, Commr. Dept. Streets and Sewers, receives bids Mar. 28 to improve 11 streets in various districts, including Broad, Main, Cross, Evans, etc.; cement, concrete, sheet asphalt and asphaltic concrete; plans on file.

Tenn., Elizabethton — City receives bids March 25 to grade, pave and resurface streets in several Improvement Dists. Address City Mgr.

Tenn., Gallatin — Sumner County plans highway from Douglas Pike near Gallatin to Portland. Address County Comms.

Tenn., Wartburg—Dept. of Highways and Public Works, Nashville, plans Wartburg-Helenwood road, Morgan County; F. W. Webster, Div. Engr., Knoxville.

Tenn., Waynesboro—Wayne County plans 6 mi. gravel and chat road from Clifton to Hardin County line. Address County Comms.

Texas—State Highway Comm., Austin, plans 5 roads: 80 mi. Newcastle, Young County,

through Throckmorton County to Haskell, Rule and Aspermont; 50 mi. Brownwood to Carbon, Eastland County, via Rising Star; 40 mi. Eastland to Stephenville; 40 mi. Munday to Knox City; 60 mi. Benjamin to Guthrie to Dickens.

Tex., Beaumont—City contemplates paving Hazel St. from Magnolia to Forrest and Live Oak from Voth Highway to Magnolia. Address City Clk.

Tex., Carthage—Ch. Engr. U. S. Bureau of Public Roads, Washington, D. C., approved plans to grade and bridge 14.7 mi. State Highway No. 64, Fairplay road, between Carthage and Rusk County line, estimated cost \$69,400; Titus & Dillon, County Engrs.; Thos. E. Boren, County Judge.

Tex., Dallas—See Land Development.

Tex., Falfurrias—Brooks County plans improving 2 roads: 2.52 mi. State Highway No. 12; 14.18 mi. 18-ft. concrete on State Highway No. 12; Randolph Harrison, County Engr.; J. S. Brooks, County Judge.

Tex., Groesbeck—Limestone County plans 70 mi. road building, cost \$1,500,000; Horace Boyett, County Engr., Mexia.

Tex., Gonzales—Gonzales County plans 19 mi. asphalt macadam road on State Highway No. 81 from Nixon on east to County line, estimated cost \$336,000; J. G. Irby, County Engr.; J. C. Romberg, County Judge.

Tex., Hallettsville—Lavaca County Commissioners plan paving highway in Dist. No. 2; votes in May on bonds; C. L. Stavinoha, County Judge.*

Tex., Houston—See Land Development.

Tex., Jacksboro—Jack County receives bids Apr. 14 to grade and bridge 12.84 mi. State Highway No. 25, Archer City road, from end of State Aid Project No. 567-A to Archer County line, 111,549 cu. yd. earth roadway, solid and loose rock excavation and borrow, 181,169 lbs. reinforcing steel; Guy R. Johnston, County Engr.; H. C. McClure, County Judge.

Tex., Jacksboro—Ch. Engr. U. S. Bureau of Public Roads, Washington, D. C., approved plans for 17.38 mi. 18-ft. asphalt macadam road on State Highway No. 39, Jacksboro County, from Lynn Creek to Archer County line; approximate cost \$309,000; Guy R. Johnston, County Engr.; H. C. McClure, County Judge.

Tex., Memphis—Hall County plans grading and building bridges on 2 roads: 5.05 mi. 18-ft. gravel surfaced State Highway No. 18, Turkey-Esteline road, from Culver to Esteline, in Road Dist. No. 3, approximate cost \$43,000; 11.72 mi. State Highway No. 5; C. L. Hasie, County Engr.; A. C. Hoffman, County Judge.

Tex., Palestine—Anderson County Comms. receive bids April 14 for earth and grading on 2 roads: 10.75 mi. State Highway No. 43, from Palestine to Neches; 9.75 mi. State Highway No. 19, from Palestine to Elkhart; Edw. W. Davis, County Engr.; W. C. Quick, County Judge.*

Tex., Post City—City receives bids this week for 35,000 yd. paving; also concrete curbing, gutter, etc., alternate bids on 2 1/2-in. vertical fiber on 5-in. and 6-in. concrete base; Elrod Engineering Co., Engrs., 3124 Elm St., Dallas

Tex., Rock Springs—Ch. Engr. U. S. Bureau of Public Roads, Washington, D. C., approved plans to grade and bridge 17.13 mi. State Highway No. 41, Edwards County, estimated cost \$146,500; W. E. Simpson, County Engr., National Bank of Commerce Bldg., San Antonio; C. H. Gilmer, County Judge, Rock Springs.

Tex., San Angelo—City Comm., E. F. Jackson, Mgr., plans pavement and street improvement; votes April 11 on \$100,000 bonds.*

Tex., San Antonio—City let contract to Uvalde Rock Asphalt Co., 1218 N. Musquite St., San Antonio, at \$22,170 to pave 6 blocks Buena Vista St. with 2-in. Uvalde rock asphalt on macadam base; I. Ewig, City Engr.*

Tex., San Antonio—City is receiving bids to grade, raise, fill, lay foundation and 1 1/2-in. cold rock asphalt topping on W. Kings Highway and Buckeye St.; John W. Tobin, Mayor; I. Ewig, City Engr.

Tex., Temple—City plans street paving; votes \$25,000 bonds. Address City Clk.

Tex., Tornillo—See Bridges, Culverts, Vlads.

Tex., Waco—City, E. E. McAdams, Mgr., plans opening Seventh St. from Washington to Austin, votes April 14 on \$150,000 bonds; V. G. Koch, City Engr.*

Tex., Waco—City, E. E. McAdams, Mgr., plans street improvement; votes May 12 on \$250,000 bonds; V. G. Koch, City Engr.

Va., Danville—City plans street improvement; votes May 5 on \$200,000 bonds. Address City Clk.*

Va., Fort Myer Heights—Arlington County, Arlington Dist. Good Roads Comn., Arthur Orr, Chmn., plans 20 mi. road building; votes April 20 on \$753,503 bonds.*

Va., Halifax—Halifax County Board of Supervisors authorized building 14 mi. road in County.

Va., Warm Springs—Bath County, Board of Supvrs. appropriated \$50,000 toward building road connecting Warm Springs with Staunton.

W. Va., Beckley — Raleigh County Court plans improving 3 roads; votes Apr. 18 on \$750,000 bonds: Pemberton road, Maple Fork, Price Hill-Lanark. Address County Comms.

W. Va., Bluefield—Mercer County plans 2 mi. road between Bluefield and Abshire Gap to connect with Virginia Highway system. Address County Comms.

W. Va., Bluefield—City, Clarence E. Ridley, Mgr., let contract to Ford & Harvey, Lynchburg, Va., at \$141,050 for about 24,000 sq. yd. one course concrete paving; Harry M. Waugh, Bluefield, \$5742 to grade Hill Ave.*

W. Va., Clarksburg—Harrison and Taylor Counties plan 4 1/2 mi. bituminous macadam road connecting mining territory in Flemington region from Northwestern turnpike, 1 mi. west of Bridgeport, connecting hard surfaced road at Rosemont. Address County Comms.

W. Va., Clarksburg — Harrison County Court, Clair N. Parrish, Clk., receives bids March 23 to grade, drain and improve 9 sections of road: 1 1/4 mi. from railroad crossing at Meadowbrook toward Bridgeport; 1 1/4 mi. from Peora to Wyatt; 1 1/4 mi. from improved road at Mt. Clare toward Lost Creek; 2 1/2 mi. from Coplin Church on Tenmile to Jarvisville; 1 1/2 mi. from end of improved road at Saltwell up Shinn's Run; 1 1/4 mi. stone base from Arthur Rhode's up Kincheloe Creek; 2 mi. Buckhannon Pike from Turkey Run to Quiet Dell; hard surface with bituminous macadam 3600 ft., and with concrete 3 1/4 mi. from end of improved road at Laura Lee to Sardis Dist. line at Dola; 1/4 mi. concrete surface on Green and Muray St., Union Heights, No. 1; plans from County Road Eng., Court St.*

Sewer Construction

Ala., Birmingham—See Road and Street Construction.

Ala., Tuscaloosa—See Land Development.

Ala., Tuscaloosa—See Road and Street Construction.

Ala., Tuscaloosa—City receives bids April 7 for storm and sanitary sewers; W. H. Nicol, City Engr. (See Machinery Wanted—Sewers.)

Ark., Batesville—City plans constructing

sanitary sewers, cost \$30,000: V. V. Long & Co., Engrs., 1300 Colcord Bldg., Oklahoma City, Okla.

Ark., Rogers—J. S. Terry of Poteau, Okla., has contract at \$32,000 for construction of sewer in Southside.*

D. C., Washington—District Comms., Room 509 District Bldg., receives bids March 26 for sewers. (See Machinery Wanted—Sewer Construction.)

Fla., Bartow—See Land Development.

Fla., Bonita Springs—See Land Development.

Fla., Ellenton—See Water Works.

Fla., Fort Lauderdale—See Land Development.

Fla., Fort Myers—See Land Development.

Fla., Haines City—See Road and Street Construction.

Fla., Jacksonville—See Land Development.

Fla., Lake Maitland—See Road and Street Construction.

Fla., Largo—The J. B. McCrary Co., Atlanta, Ga., has contract for outfall sewers.

Fla., Miami—See Land Development.

Fla., Plant City—See Land Development.

Fla., Palmetto—City, P. P. Pitcher, Engr., will construct street paving, water works and sewer extension, white-way lights; H. R. Curry, Bradenton, has street contract; expend \$300,000; Kirby & Webb, Civil Engr.

Fla., Tampa—City will install street paving, lighting and sewer connection in Seminole Heights, North Park, etc.

Fla., Tampa—See Land Development.

Fla., Titusville—City voted bonds. Address the Mayor.*

Fla., Winter Haven—See Land Development.

Ga., Macon—City received low bid at \$96,672 from J. B. McCrary Engineering Co., Citizens & Savings Bank Bldg., Atlanta, for Contract No. 100; Norton Bird & Whitman, Munsell Bldg., Baltimore, Md., Consnl. Engrs.*

Ky., Paducah—City, J. N. Bailey, M.D., Mayor, will expend \$600,000 for sewer improvements; will probably call for bids in May.*

La., Amite—City let contract to N. A. Forrest to install \$65,000 sewer system.

La., Baton Rouge—See Land Development.

Md., Baltimore—Board of Awards, Mayor Howard W. Jackson, Pres., opens bids March 26 for storm drain and sanitary sewer. (See Machinery Wanted—Sewer Construction.)

Md., Cumberland—Vang Construction Co. has contract for sewer to C. & O. Canal; Tri-State Engineering Co., Sub-Contr.

Md., Hancock—See Water Works.

Mo., West Plains—City will vote on sewer bonds: Axon & Russell, Engrs., Springfield.*

N. C., Apex—Town Comms. receive bids April 15 for sewerage and water works; Gilbert C. White Co., Engrs., Durham. (See Machinery Wanted—Water Works and Sewers.)

N. C., Cedar Mountain—See Land Development.

N. C., Hickory—See Land Development.

N. C., Wilson—Town, Silas R. Lucas, Mayor, receives bids March 30 for sewer system. (See Machinery Wanted—Sewer Construction.)

S. C., Greenville—See Land Development.

Tenn., Knoxville—City Council approved construction of trunk line sewer in Lonsdale from Oakwood sewer; estimated cost \$23,000.

Tex., Clarendon—City votes April 3 on \$121,000 sewer bonds; F. E. Davlin, Engr., 614 Bitting Bldg., Wichita, Kan.

Tex., Dallas—See Land Development.

Tex., Fort Worth—City Comms. contemplate extending sewer lines to Riverside.

Tex., Houston—City received low bid from Charles K. Horton, 2202 Clay St., at \$33,138 for West Dallas project and \$17,629 on West Gray, and bid from E. K. High, West Bldg., on water main on Waugh Drive.

Tex., San Angelo—City votes April 11 on \$375,000 sewer bonds; E. F. Jackson, City Mgr.*

Tex., Weslaco—City, R. E. Snodgrass, Mayor, will extend sewer system; construct 6 to 10-in. pipe line; \$25,000 to cover total cost, \$5000 for disposal plant.

Va., Clarendon—Capt. John T. Talman, Sanitary Engr., Arlington County, will soon begin construction of trunk line sewer from Spout Run, distance of 2 miles; cost \$27,000.

Va., Danville—City votes May 5 on \$50,000 sewer bonds. Address The Mayor.*

Va., Portsmouth—City Council will soon call for bids for sewer construction.*

W. Va., Huntington—City adopted specifications and designs for sewer inlets and manholes, including head walls for pipe drains, manholes, etc.

W. Va., Huntington—City votes May 5 on \$791,000 bonds. Address The Mayor.*

Telephone Systems

Ala., Tuscaloosa—Southern Bell Telephone Co., main office Atlanta, Ga., expending \$25,000 on improvements.

Fla., Bradenton—Peninsular Telephone Co., W. U. Lathrop, Mgr., will expend \$300,000 on improvements to local exchanges and new long distance lines, erect 3-story fireproof building for installation of automatic plant.

Fla., Fort Lauderdale—Southern Bell Telephone & Telegraph Co., main office Atlanta, Ga., has acquired the Fort Lauderdale Telephone Co.; will expend approximately \$75,000 for new equipment and extensions during present year.

Fla., St. Petersburg—Peninsular Telephone Co., W. G. Brorein, Pres., will expend \$500,000 in equipment for new building on First Ave.*

N. C., Columbia—Cahoon Telephone Co., capital \$50,000, incorporated; E. P. Cahoon, E. P. Cahoon, Jr.

W. Va., Kernes—The Cheat Valley Telephone Co., incorporated; H. S. Irons, G. H. Hansford.

Textile Mills

Ala., Huntsville—Aycocock Hosiery Mills, South Pittsburg, Tenn., R. C. Aycocock, Pres., leased 2 story building for hosiery mill; daily capacity 2000 doz. will install 100 knitting machines; electric drive.*

Ala., Union Springs—Cowikee Cotton Mills, Eufaula, Comer Jennings, V.-P., reported to install 1000 additional spindles, increasing capacity 20 per cent.

Ark., Hope—International Shoe Co., 1505 Washington St., St. Louis, Mo., reported considering establishment of mill for manufacture of cloth lining for shoes.

N. C., High Point—Hillcrest Silk Co., West New York, N. J., let contract to T. C. Thompson and Bros., 609 N. Smith St., Charlotte, for textile mill; sub contracts will be awarded soon; cost \$100,000; Lockwood, Greene & Co., Piedmont Bldg., Engrs., Charlotte.*

S. C., Greenville—Victor-Monaghan Mills will install 72 automatic looms.

Tenn., Athens—Athens Hosiery Mills, R. J. Fisher, Jr., will erect hosiery plant; 42x60 ft.; brick; 2 stories; cost \$15,000; A. M. Prather, Contr.*

Tenn., Jacksonville—DuPont Fibersilk Co., Buffalo, N. Y., Dr. H. J. White, Supt., reported to begin construction of additional plant at Old Hickory. Company wires addi-

tional capacity at Old Hickory is an extension of present work with same contractors as now employed; DuPont Co., Wilmington.

Tex., Galveston—Nobska Spinning Co., F. W. Nichols, Jr., Treas., Taunton, Mass., reported to establish 15,000 spindle mill.

Va., Waynesboro—Stehli Silk Corp., 104 E. 25th St., New York, reported to have 7 acre site and will erect silk mill.

Water Works

Ala., Albany—Alabama Water Co., P. B. Hale, Mgr., will install 300,000-gal. capacity tank for Albany-Decatur.

Ala., Phenix City—City voted \$80,000 water bonds. Address the Mayor.

Ala., Tuscaloosa—See Land Development.

Fla., Bartow—See Land Development.

Fla., Bonita Springs—See Land Development.

Fla., Dania—City contemplates expending \$75,000 for water works extension; Henry T. Tubbs, Mayor.

Fla., Delray—City, J. S. Sundy, Mayor, will install water works.

Fla., Ellenton—City voted \$46,000 water and sewer bonds. Address the Mayor.

Fla., Fort Lauderdale—See Land Development.

Fla., Fort Myers—See Land Development.

Fla., Haines City—See Road and Street Construction.

Fla., Miami—See Land Development.

Fla., Palmetto—See Land Development.

Fla., Plant City—See Land Development.

Fla., Tampa—See Land Development.

Fla., Titusville—City voted bonds. Address the Mayor.*

Fla., West Palm Beach—West Palm Beach Water Co. will extend water mains.

Fla., Winter Haven—See Land Development.

Ky., Roxana—Dr. Gid Whittaker will construct \$20,000 water works system.

La., Baton Rouge—See Land Development.

La., Mansura—City let contract for \$55,000 water and electric light plant; Arthur J. Escude, Mayor.

Md., Hancock—City votes April 6 on \$10,000 water and sewer bonds. Address The Mayor.

Miss., Natchez—Water Coms., Chas. Brassfield, Chrmn., approved plans for construction of 500,000 gal. capacity water tower.

Mo., Bethany—City defeated \$24,000 bond issue for light and water plant. Address the Mayor.*

Mo., Kansas City—Raytown Water Co. granted permission to lay water mains on 17 county roads.

Mo., Fredericktown—City, C. A. Haskins, Engr., 517 Finance Bldg., will soon let contract for water works improvements; cost \$112,000.

Mo., Steele—City voted \$30,000 water works bonds; A. C. Moore, Engr., 222 Industrial Bldg., Joplin.

N. C., Apex—Town Comms. receive bids April 15 for water works and sewers; Gilbert C. White, Eng., Durham, N. C. (See Machinery Wanted—Water Works and Sewers.)

N. C., Cedar Mountain—See Land Development.

N. C., Hickory—See Land Development.

Okl., Elk City—City reported to have plans for addition to water works. Address the Mayor.

Okl., Quinton—Case and Bowers have contract at \$20,800 for filtration plant.*

S. C., Greenville—See Land Development.

Tenn., Chattanooga—City Water Co. contemplates expending \$300,000 for improvements to water work plants; will install 15,000,000 gal. pump; 6 1,000,000 gal. capacity concrete filters; will probably install

auxiliary water plant on Signal Mountains; company wires: Improvements consist of six 1,000,000 gal. concrete filters, one 2,000,000 gal. concrete settling basin; one 15,000,000 gal. turbo centrifugal pump; American Construction & Securities Co., Contrs. and Engrs., 50 Broad St., New York City.*

Tenn., Erwin—Board of Aldermen contemplate acquiring Erwin Water Co.'s plant.

Tex., Amarillo—City voted \$1,750,000 water works bonds; Eugene Blasdel, Mayor.*

Tex., Dallas—See Land Development.

Tex., Donna—H. J. Wilson, San Juan, is preparing plans for water works system; \$50,000 available.*

Tex., Houston—See Land Development.

Tex., Houston—See Sewer Construction.

Tex., Nacogdoches—See Electric Light and Power Plant.

Tex., Rusk—City reported to construct earth dam, spillway and filtration plant; F. A. Jones, Engr.

Tex., Temple—City votes April 6 on \$50,000 water works bonds. Address The Mayor.

Tex., Victoria—City opens machinery bids March 26 for water works extension; install two 72x18-ft. 74 tubes; W. E. LaNoue, Engr., 302 Texas Bank Bldg., San Antonio.*

Tex., Waco—City let contract to Hamill Drilling Co., Houston, at \$22,500 for drilling artesian well.

W. Va., Charleston—Kingswood Water Co., increased capital.

Woodworking Plants

Fla., Hollywood—Hollywood Millwork Co., capital \$10,000, incorporated; H. C. Price, Pres.; J. N. Laubenthal, Sec.

Fla., St. Petersburg—Grounds Bros., 1215 1st Ave., reported to erect \$100,000 building at Twenty-fourth and Eighth St., 1-story, 190x120-ft.; manufacture sash, doors, etc.

Ga., Dublin—W. A. Capshaw of Elba, Ala., contemplates building plant to manufacture cotton-mill shuttles; has site.

Tenn., Chattanooga—Tennessee Coffin & Casket Co., has begun construction of additional building, 100x130-ft., brick; increasing plants capacity.

Tenn., Chattanooga—Signal Furniture Corp. let contract to Rogers & Leventhal, Pound Bldg. of Chattanooga, for \$25,000 plant in East Chattanooga; install equipment, manufacture bedroom furniture; contract to Harold Crouch for necessary grading.

Tex., Denison—Kerr Furniture Co., capital \$60,000, incorporated; B. J. Kerr, C. H. Kerr.

FIRE DAMAGE

Ala., Enterprise—Stables of O. L. Skipper Live Stock Co.; loss about \$10,000.

Ala., Hazel Green—John Moseley's barn; loss \$10,000.

Ala., Phenix City—Central of Georgia Rwy. station; loss \$10,000; address C. K. Lawrence, Ch. Engr., Savannah.

Ark., Hatfield—Pleasant Hill school and church building; address School Board.

Ark., Batesville—Ira J. Matheny's residence, loss \$6000.

Ark., Fort Smith—Fort Smith Cotton Oil Co.'s warehouse and mill; \$185,000.

Ark., Paragould—M. Solomon's store building, N. Puet St.; loss \$30,000.

Ark., Siloam Springs—Mrs. Will Bobo's residence.

Fla., Jacksonville—Niagara Chemical Co.'s plant at Parker and Adams St.; building owned by Commodore Point Terminal Co.

Fla., Jacksonville—Atlantic Coast Line Warehouse, occupied by Adams Sales Co. and J. W. Snyder Co.

In writing to parties mentioned in this department it will be of advantage to all concerned

Ga., Atlanta—The Glidden Stores, 12 Auburn Ave.; loss \$25,000.

Ga., Atlanta—Fulton Grocery Store, 127 Decatur St.; loss \$10,000.

Ky., Madisonville—People's Shoe Store and other buildings; loss \$32,000.

Ky., Murray—Two barns of Tom Belcher, near Murray.

Ky., Paducah—The Langstaff-Orm Lumber Co.'s mill at Second and Adams St., loss \$50,000.

La., Alexandria—Plant of the Chopin Louisiana Lumber Co., owned by Robert Stack.

La., Carson—Colored school building; address Beauregard Parish Board of Education, De Ridder.

La., Garyville—Lyon Lumber Co.'s hardware yards; loss \$300,000.

La., Kentwood—Electric Light Co.'s plant; loss not estimated.

La., Shreveport—R. G. Carithers' residence, 2600 Coral St.

Md., Baltimore—Nathan W. Fisher fur store, 126 N. Eutaw St.; loss \$5000.

Md., Frostburg—Hitchins Brothers department store; loss \$350,000; address Emory Hitchins, Mgr.

Md., Hagerstown—Fahrney Building, N. Potomac St., housing C. H. Hoffman & Sons store, C. Fred Bickle shoe store, Wm. B. King photograph studio, 2 apartments; loss \$200,000; Imperial Ice Co.'s stockroom, loss \$2800.

Miss., Flora—Hal J. Jones' residence; loss \$10,000.

Miss., Hickory Flat—Bynum Lumber Co.'s yard; loss not estimated.

Mo., Fredericktown—High School building; loss \$50,000; address Board of Education.

Mo., Kansas City—Obear-Nester Glass Co.'s warehouse building at Guinotte & Brooklyn Ave.; storage building of Beggs Motor Co.; loss not estimated.

Mo., Kansas City—Buildings of the Schutte Co. at 25th and Grand St.; the Reid Ward Motor Co. and the Overland Co.; total loss not estimated.

Mo., Poplar Bluff—Warehouse building occupied by the Bluff City Manufacturing Co.; loss \$10,000.

Mo., Salem—Brent Block, consuming 3 hotels, 6 stores, printing establishment and 2 dwellings; includes Commercial Hotel, address the Propr.; loss \$300,000.

Mo., St. Louis—Westminster Laundry at 4113 Olive St.; loss \$30,000.

Mo., St. Louis—Friedman Cloak Co., 1231-3 Washington Ave.; loss \$20,000; Frank Lind Cash Grocery Co., 700 Lucas Ave.; loss \$100,000.

Mo., St. Louis—Rockwell-Barnes Paper Co.'s building corner Third and Locust Sts.; loss \$70,000.

Mo., Williamsville—Chapel Hill Church, Wayne County. Address The Pastor.

N. C., Camden—Will Morrisette's residence near courthouse; loss \$7000 to \$10,000.

N. C., Charlotte—Building occupied by the Charlotte Chemical Laboratories at S. Boulevard and Palfer St.; loss \$50,000.

N. C., Dunn—Jas. Adams' residence, owned by J. W. Whitehead; loss \$7000.

N. C., Lawndale—Palm Tree Methodist Church near Lawndale. Address The Pastor.

N. C., Warrenton—Dormitory at Wise Training School; address Trustees.

Okl., Tulsa—Building at 11 N. Cheyenne St., occupied by the Jansen-Upp-Meyer Manufacturing Co.; loss not estimated.

Okl., Tulsa—Tulsa Canvas Products Co.'s plant; loss \$60,000.

Okl., Washington—Post Office, address The Postmaster, Masonic Hall, First National Bank and Arch Fry Grocery; loss \$25,000.

S. C., Callison—J. A. Callison's residence.

S. C., Cheraw—Building on square owned by J. T. Ladd and occupied by First National Bank and Electric Bakery on first floor, offices and apartments above.

S. C., Seneca—100-ft. timber bridge over Seneca River, between Seneca and Clemson College. Address State Highways Dept., Columbia.

Tenn., Kingsport—Runway of the chip conveyor of the Meade Fibre Co.'s plant; loss not estimated.

Tenn., Knoxville—J. R. Langston's residence, Glenn and Walker Sts.

Tenn., Memphis—Branch plant of the Bohlen-Huse Coal & Ice Co. on Mississippi Ave.

Tenn., Murfreesboro—Store owned by Glenn Smotherman, Christiana; Dr. E. B. Allen's residence; loss \$25,000.

Tenn., Rockwood—Cooper Building, owned by Polk Tarwater, Fred Haggard, Dr. J. E. George and Dr. J. C. Wilson; loss \$10,000.

Tex., Bartlett—Residences of J. W. Jackson and Dr. E. D. Slaven, later occupied by Mrs. R. Rozinet; loss \$15,000.

Tex., Bloomington—School buildings; address Board of Education.

Tex., Cementville—Offices and storerooms of the San Antonio Portland Cement Co., loss \$10,000; H. O. Rinehold, Plant Mgr.

Tex., Dallas—Nash-McLarty Co.'s plant; loss \$50,000.

Tex., Dallas—Building at Pearl and Ratler Sts., occupied by American Stock Paper Co.; loss \$20,000.

Tex., Dallas—Robertson & White, 2300 S. Harwood St., wholesale warehouse; loss \$100,000.

Tex., Decatur—Building owned by C. B. Beard, Fort Worth; loss \$10,000.

Tex., Denton—Herbert Church's residence and 4 additional dwellings; loss \$15,000.

Tex., Hudsonville (Mall Lamasco)—Dormitory of Orphans' Home; loss \$15,000; address Board of Trustees.

Tex., Marlin—Building owned by L. N. Stanley, Paul Scheiblich building, and building occupied by Mrs. W. H. Lindsey, milliner, owned by Mrs. Quaid, El Paso.

Tex., San Antonio—Mrs. I. G. Ethridge's residence.

Tex., San Saba—T. C. Henry's residence; loss about \$12,000.

Tex., Schroeder—Dr. N. A. Kilgore's store, residence and barn; loss \$10,000.

Tex., Temple—R. O. Culp residence and J. C. Spencer apartment; loss \$20,000.

Tex., Wichita Falls—Roundhouse and shops of the Wichita Falls & Southern Ry.; estimated loss \$135,000.

Va., Columbia—A. Walton's flour mill; loss not estimated.

Va., Galax—Acid plant owned by Trice Yancey; loss \$75,000.

Va., Martinsville—J. B. Sparrow Co.'s tobacco storage; loss \$15,000.

W. Va., Clarksburg—Mine tipple of the Gilbert Fairmont Mining Co.; loss not estimated.

W. Va., Huntington—Warnock & Charles Drug Store, 16th St. and 8th Ave., owned by Dr. C. W. Warnock; loss \$25,000.

W. Va., Spencer—R. H. Beckley paint store and Zarner Grocery, both owned by Mr. Beckley; loss \$10,000.

W. Va., West Liberty—Post Office, address The Postmaster; and residences of L. A. McGraw and Wade Thornburg; loss \$25,000.

if the Manufacturers Record is mentioned.

BUILDING NEWS

BUILDINGS PROPOSED

Association and Fraternal

Ky., Henderson—Jerusalem Lodge No. 9, A. F. & A. M., will take bids about April 15 or May 1 for steel and brick Masonic Temple, 2nd and Elm Sts.; cost \$100,000, 4 stories, 50x142.6 ft., wood floors, concrete foundation, composition roof, metal doors, ornamental terra cotta, steel sash and trim, wire glass; furnishings, equipment, etc., \$10,000. Address Sanders & Weinedel, Archts., 410-11 Lincoln Bank Bldg., Louisville.*

La., Jennings—Jennings Lodge No. 249, A. F. & A. M., Jos. Davis, member Site Comm., plans to erect temple.

Md., Baltimore—Order of Eastern Star, Mrs. Elizabeth H. Williams, Pres., Bldg. Comsn., 3601 Chestnut Ave., is having plans revised by Clyde N. & Nelson Friz, Lexington Bldg., for \$300,000 lodge building, 1024 N. Charles St.; raze structure on site; 4 stories and basement, brick and terra cotta.*

Md., Cumberland—Junior Order United American Mechanics Hall Assn., reported to erect 3-story building, Polk and Bedford Sts.

Miss., Jackson—Young Men's Christian Association, plans to remodel building.

Mo., Saginaw—Saginaw A. H. T. A. Auxiliary will erect lodge and auxiliary hall; foundation completed.

N. C., Newton—Catawba Lodge No. 248, A. F. & A. M., is having plans drawn by W. G. Rogers, Latonia Bldg., Charlotte, for \$25,000 to \$30,000 temple; city hall and fire dept. on first floor.*

Okla., Oklahoma City—Oklahoma City Post No. 35, American Legion, Gen. Roy Hoffman, Chmn., Bldg. Comm., will erect \$60,000 clubhouse, site of present structure, Tenth St. and Robinson Ave.; 3 stories and basement, 75x100 ft.; first floor for business purposes.

Tenn., Chattanooga—Boy Scouts, Market St., Mr. Fauvette, Pres., purchased 92-acre tract, Chickamauga Creek, 14 miles from Chattanooga, for camp site; plan to erect \$3500 headquarters and hospital, \$5000 to \$7500 combined mess hall, kitchen, auditorium and gymnasium and similar library, reading and writing rooms building; plans by H. Sears and W. L. Love, members, executive board.

Tex., Lancaster—Amrita Grotto, W. E. Harrell, Chmn., Bldg. Comm., Fort Worth, will erect clubhouse on 40-acre tract near Lancaster; golf course, tennis courts, etc.

Tex., Memphis—Ancient Free and Accepted Masons selected W. R. Kaufman, 1007 Monroe St., Amarillo, as architect for \$30,000 temple; brick, stone and reinforced concrete, 2 stories and mezzanine.*

Tex., San Antonio—Kelly Lodge, A. F. & A. M., will erect \$15,000 temple, Main St.; 2 stories, 50x60 ft., brick and tile; J. I. White, Archt., care Couch-Ables Lumber Co.; receiving bids.

Tex., Temple—Ancient Free and Accepted Masons are receiving bids for face brick, tile and reinforced concrete temple; cost \$50,000; Ralph H. Cameron, Archt., City National Bank Bldg., San Antonio.

Bank and Office

Fla., Clearwater—Guaranty Title & Trust Co., will erect 4-story building, site of present structure, Cleveland St.; elevators, steam heating.

Fla., Lakeland—E. J. Sparks, care Talley & Sparks, Lakeland and Jacksonville, will erect 10-story Marble Arcade and Office Building, Lemon St. and Kentucky Ave.; first 2 stories North Carolina marble, 50x122 ft.;

stores on first floor; Roy N. Benjamin, Archt., Bisbee Bldg., Jacksonville.

Fla., Miami—Jerry Galatis, 1242 N. E. 2nd Ave., and J. E. Highleyman are receiving bids through Lewis D. Brumm, Archt., Calumet Bldg., for 17-story and full basement office building, N. E. 1st St., near 2nd Ave.; 3-story tower, 45x140 ft.; cost \$1,250,000; first 3 stories marble and stone, pressed brick above, terrazzo office floors, marble corridors and lobby, steel sash, metal trim, steel frame, Denison tile outside walls, gypsum block partitions, concrete joist and tile floor construction, interior wood trim, 4 elevators; banking quarters on first 3 floors, 460 offices above; no heating; steel contract let.*

Fla., Polk City—Polk City Mortgage & Finance Co., Isaac Van Horn, Pres., organized and is having plans drawn for building.

Ky., Whitesburg—Dr. B. C. Back will erect office building; contract at once.

Mo., Kansas City—Church of the Nazarene, E. J. Fleming, Gen. Sec., 2905 Troost Ave., is having plans drawn by F. C. Gunn, Republic Bldg., for \$75,000 publishing house and international headquarters building, 2917 Troost Ave.; concrete and brick, 3 stories, 60x140 ft., wood block and concrete floors, vaults, mail chutes, ventilators, ornamental terra cotta, steel sash and trim, wire glass, elevators, office partitions. Address Mr. Fleming.*

Mo., Nevada—Farm and Home Savings & Loan Assn. plans to erect addition to office building.

Mo., St. Louis—Puritan Oil Corp., 35 W. Ferry St., Dave Cohen, Pres., plans to erect \$500,000 office building, Washington Blvd. and Theresa Ave., 10 to 12 stories.

N. C., Asheville—Inland Press, Frank Barber, owner, will erect \$50,000 addition to building, Market St.; fireproof, 3 stories; stores in basement, mechanical dept. on first floor, offices above.

N. C., Salisbury—W. G. Rogers, Archt., Latonia Bldg., Charlotte, is preparing sketches for \$300,000 to \$400,000 office building; 6 or 12 stories.

Okla., Mountain View—First National Bank will erect \$15,000 addition to building; 50-foot front.

S. C., Greenville—A. C. Walker, Congress Bldg., is having plans drawn by Martin & Ward for \$250,000 office building, W. Washington St. near Laurens St.; 5 stories, 60x90 ft., brick; stores on first floor, offices on second, third and fourth for cotton firms, owner to occupy fifth; work to start within about 60 days.*

Tex., Corpus Christi—City National Bank receives bids March 25 for 6-story fireproof addition to 4-story building; cost \$100,000, reinforced concrete, 40x125 ft., cement floors, reinforced concrete foundation, 5-ply asphalt and gravel roof, hollow and interior tile, vaults, elevators, mail chutes, refrigerating equipment, ventilators, steel sash and trim, wire glass; furnishings, equipment, etc., \$50,000; Ralph H. Cameron, Archt., City National Bank Bldg., San Antonio.*

Tex., Dallas—Central State Bank, J. K. Hexter, Pres., reorganized as Central National Bank, Central Trust & Savings Bank and Central Title Guaranty Co.; will remodel first floor of Central Bank Bldg., 1604-06 Main St.; cost \$150,000.

Tex., Denton—W. E. Smoot and O. M. Curtis will probably have plans ready about March 20 for bids on fireproof office building, site of burned structure, Oak and Locust Sts.;

cost \$75,000, steel and concrete, 3 stories and basement, elevators, steam heat; 2 stores on first floor, 32 offices above; Thompson & Swaine, Archts., Dallas.*

Tex., Mart—First National Bank will open bids about April 14 for remodeling brick building for bank; 2 stories, 23x100 ft., tile and linoleum floors, steel windows, hot-air circulating heat, conduit system electric wiring, lavatory. Address Paul G. Silber & Co., Archts., Bedell Bldg., San Antonio.

Tex., San Antonio—Commercial National Bank and Commercial Loan & Trust Co., Geo. B. Talaferro, Pres., opens bids April 7 for Renaissance-type bank building, Travis and St. Mary's Sts.; cost \$200,000, steel and reinforced concrete, natural stone on 2 sides, bronze grill gates and doors, 4 stone columns, marble and bronze fixtures, height equal to 4 stories; Phelps & DeWees, Archts., Gunter Bldg.*

Tex., Wichita Falls—R. O. Harvey and C. W. Snider, City National Bank Bldg., San Antonio, will erect \$400,000 store and office building; 6 stories and basement, brick, stone and reinforced concrete; Sanguinet, Staats & Hedrick, Archts., First National Bank Bldg., Westlake Construction Co. Contr., 402 First National Bank Bldg., both Fort Worth; receiving sub-bids.

Churches

Ala., Gadsden—First Baptist Church, Rev. Wm. R. Rigell, D.D., Pastor, will open bids about May 1 for 1 and 3-story building; cost about \$130,000; equipment, furnishings, etc., \$20,000 or \$30,000, bids to be opened in summer; items to be purchased include organ, pews, few desks, etc.; R. H. Hunt Co., Archts., James Bldg., Chattanooga, Tenn. Address Rev. Mr. Rigell.*

Ark., Mountain View—Methodist Church will erect frame and stucco building. Address the Pastor.

Fla., Daytona—First Methodist Church, Rev. D. Stratford Seadeng, Pastor, is having plans drawn by Chas. H. Hopson, Atlanta, Ga., for \$80,000 to \$85,000 interlocking hollow tile and stucco building; furnishings, equipment, etc., \$10,000.*

Fla., La Belle—Methodist Church plans to erect \$10,000 Spanish-type building. Address the Pastor.

Fla., Boynton—Methodist Church, Rev. C. Fred Blackburn, Presiding Elder, plans to erect building, Green and Poinciana Sts.

Fla., South Jacksonville (Ind. Branch Jacksonville)—First Baptist Church, Rev. Chas. G. Dilworth, Pastor, will erect Sunday-school addition.

Ga., Toombsboro—Rev. T. A. Moseley, Pastor, Irwinton Method'st Circuit, Irwinton, is interested in erecting brick church.

Ky., Louisville—First Baptist Church has completed plans by Clarence C. Bulger, Dallas, Tex., for \$75,000 Sunday school building.

La., Algiers (Station A, New Orleans)—Marist Fathers will erect \$15,000 chapel; plaster walls, slate roof, pine floors, 40x96 ft.; Alex W. Norman, Archt., Louisiana Bldg.

Ky., Ashland—Methodist Episcopal Church, South, Rev. Chas. N. Clark, Pastor, plans to erect combined church and office building; Winchester and 13th Sts.; roof garden, gymnasium, bowling alley, banquet hall, etc.; plans submitted by A. Ten Eyck Brown, Forsyth Bldg., Atlanta, Ga.; Churchill & Gillig, Lexington, Ky.; Schenck & Williams, Dayton, O.

Miss., Flora—Baptist Church, Rev. E. V. May, Pastor, will possibly open bids April 1 for \$15,000 brick Sunday-school annex, 2 stories and basement, 42x62 ft.; N. W. Overstreet, Arch., Overstreet Bldg., Jackson.*

Miss., Gulfport—First Methodist Church, J. C. Ross, Chmn., Bldg. Comm., will erect Sunday-school annex.

Miss., Greenwood—Presbyterian Church, Rev. J. P. Marion, Pastor, receives bids March 24 for main auditorium and remodeling present structure for Sunday-school building; Frank McGeoy, Archt.*

Miss., Hattiesburg—True Light Baptist Church, Colored, Rev. S. S. Thomas, Pastor, plans to erect building; W. A. Rayfield, Archt., Birmingham, Ala.

Mo., Cape Girardeau—St. Pauls Lutheran Church, Rev. J. G. M. Hursh, Pastor, plans to erect building.

Mo., Springfield—St. Paul M. E. Church plans to erect addition. Address The Pastor.

N. C., Albemarle—First Methodist Church will erect \$50,000 to \$60,000 Sunday-school building; 3 stories; W. G. Rogers, Archt., Latonia Bldg., Charlotte.

N. C., Durham—Edgemont Baptist Church, Rev. C. S. Norville, Pastor, will erect \$30,000 to \$35,000 Sunday School building.

N. C., High Point—First Baptist Church plans to erect addition to present structure or new building. Address the pastor.

N. C., King—Christian Church will erect building. Address The Pastor.

N. C., Winston-Salem—First Reformed Church, Rev. A. C. Peeler, Pastor, plans to erect \$30,000 building, Waughton St. near Att St.; brick, granite trim, 70x100 ft., main auditorium to seat 400, Sunday school accommodate 600.

Okla., Tulsa—Hillcrest Avenue M. E. Church, South, Dr. John A. Rice, Pastor, Boston Avenue M. E. Church, South, interested, will erect \$30,000 building, 11th and Lewis Sts.

Okla., Tulsa—Rev. W. F. Garvin, 817 N. Norfolk St., is interested in erection of non-denominational church, 13th and Trenton Sts.; brick, steel and concrete, 50x140 ft., main auditorium to seat 1000, provision for future balcony addition.

S. C., Greenville—Pendleton Street Baptist Church, Dr. B. D. Hahn, Pastor, plans to erect building; install pipe organ.

S. C., Spartanburg—Southside Baptist Church, Dr. C. B. Simmons, member, Bldg. Comm., plans to erect Sunday-school annex with auditorium to seat 1000; Dr. Harvey Beauchamp, Archt., Dallas, Tex. Address Dr. Simmons.

Tenn., Knoxville—Church of the Holy Ghost will erect \$150,000 to \$200,000 building, N. Central St. and Hinton Ave.; Gothic type, concrete, stone and brick, 74x128 ft.; 43x80-ft. main auditorium to seat 800, exclusive of transepts; Crowe & Schulte, Archt., Cincinnati, O.; bids opened March 14.

Tex., Alvin—First M. E. Church, South, Bldg. Comm., Rev. Herndon I. Robinson, Pastor, receives bids March 25 for 3-story building; cost \$25,000; pine and cement floors, concrete foundation, composition roof, 65x65 ft., face and common brick, stone trim, rolling partitions, plaster board; furnishings, equipment, etc., \$5000; plans and specifications from Pastor and John W. Westbrook Co., Archt., 407½ N. Bishop Ave., Dallas.*

Tex., Dallas—City Temple Presbyterian Church, Dr. L. D. Young, Pastor, is having plans prepared by R. H. Hunt Co., James Bldg., Chattanooga, Tenn., and Dallas, for \$2,000,000 building, site not selected; 18 stories, church auditorium to seat 2400, offices and living quarters for 750 above.

Tex., Galveston—Anne Trueheart Presbyterian Church will erect \$30,000 building, 37th St. and Avenue 2½; accommodate 600, 16 classrooms. Address the Pastor.

Tex., Houston—Grace Methodist Church will open bids about April 15 for fireproof concrete and brick Sunday school building and remodeling main auditorium; cost \$25,000. 44x78 ft., built-up asphalt roof, concrete floors, forced warm air heat; Paul G. Silber & Co., Archts., Bedell Bldg., San Antonio.

Tex., Houston—Union Gospel Mission, Main

and 14th Sts., Sam B. Mayfield, Supt., will erect \$100,000 building, Houston and 13th Sts.; 6 stories, 50x100 ft., stone and enameled white brick, fireproof, steam heat, elevators, 175 rooms, baths; O. H. Atkinson, Archt.

Tex., Houston—First Baptist Church will open bids April 1 for reinforced concrete and structural steel main auditorium, Main and Lamar Sts.; basement completed; cost \$175,000 to \$200,000, height equivalent to 3 stories, 94x126 ft., cement, tile and terrazzo floors, composition roof, hollow and interior tile, metal doors, ventilators, ornamental terra cotta, rolling partitions, steel sash and trim, wire glass; C. D. Hill & Co. and J. W. Dehnert, Archts., 501 Kress Bldg.; items to be purchased include structural steel, concrete, brick, tile, terra cotta, plastering, heating, plumbing, electric work, ventilating. Address Owner, care Archts.*

Tex., Mart—First M. E. Church, South, will open bids about May 1 for brick building; cost \$40,000, 3 stories, 69x105 ft., concrete floors and foundation, gravel or iron roof, metal ceilings; furnishings, equipment, etc., \$10,000; items to be purchased include face brick, art glass, lighting and plumbing fixtures, hot air heating system, pews, pipe organ, pulpit furniture, etc., address H. E. Thomas, Sec., Bldg. Comm.; Wm. C. Meador, Archt., Dan Waggoner Bldg., Fort Worth.*

Tex., Palestine—First Christian Church will erect addition; bids opened March 14. Address The Pastor.

Tex., Port Arthur—First Baptist Church, Rev. C. W. Culp, Pastor, will erect \$90,000 addition, 5th St. and Shreveport Ave.

Tex., San Benito—First Baptist Church opens bids about April 7 for brick veneer church and Sunday-school; cost \$35,000, concrete foundation and ground floor, 3 stories, 68x113 ft., concrete and pine floors, built-up asphalt roof, forced warm-air heating, conduit system electric wiring; furnishings, equipment, etc., \$15,000. Address Paul G. Silber & Co., Archt., Bedell Bldg., San Antonio.*

Tex., Texas City—First Baptist Church plans to erect \$25,000 building, Third St. and 7th Ave. Address The Pastor.

Tex., Uvalde—Baptist Church is having plans drawn by Will N. Noonan, Moore Bldg., for \$35,000 brick building: 2 stories and basement, 69x90 ft., wood and concrete floors, concrete foundation, asbestos shingle roof, rolling partitions. Address proposals on equipment, furnishings, etc., including seats, to A. B. Mayhew, Chmn., Bldg. Comm.*

Tex., Waco—Clay Avenue Methodist Church, D. M. Wilkinson, Chmn., Bldg. Comm., selected Wm. C. Meador, Fort Worth, as architect for \$25,000 to \$30,000 building, site of present structure, 16th and Clay Sts.; brick and reinforced concrete.*

Va., Richmond—Varina Episcopal Church, Jas. T. Estes, Chmn., Bldg. Comm., R. F. D. No. 6, plans to erect church and Sunday-school room in Varina District as memorial to Pocahontas; accommodate 200, recess chancel, etc.

Va., Roanoke—First M. E. Church, Rev. John H. Ford, Pastor, will erect \$40,000 brick building, 407 Tazewell Ave., S. E.; 2 stories, hardwood floors; plans by Bureau of Architecture of M. E. Church, 1701 Arch St., Philadelphia, Pa.*

City and County

Ala., Toulminville (Mail Mobile)—Mobile County, Thos. B. Allman, County Clk., receives bids April 1 for fireproof building for negroes at poorhouse asylum; brick from old county jail building; plans and specifications from J. Platt Roberts, County Archt., 757 Government St., Mobile.*

Fla., Fort Lauderdale—City and Broward County consider erecting \$200,000 courthouse

and municipal building. Address the Mayor or County Commission.

Fla., Haines City—City Commission, Jess P. Ferrill, City Mgr., considers calling election in April on jail bonds.

Fla., La Belle—Hendry County, M. E. Forrey Chmn., County Commission, is having plans drawn by E. C. Hosford, Lakeland, for \$100,000 courthouse.*

Fla., Tampa—Hillsborough County Board of Commrs., W. T. Williams, Riverview, Chmn., receives bids March 23 for offer of entire city block as site for courthouse.*

Fla., Titusville—City, J. P. Wilson, City Clk., voted \$500,000 bonds, including \$25,000 for city office building.*

Ga., Columbus—City, Walter A. Richards, Mayor, receives bids March 30 at office City Manager for 2 sides of reinforced cement concrete stadium seating 10,000, South Commons; work consists of following quantities: 2100 cu. yds. concrete, 15 tons reinforcing mesh, 50,000 B. M. treated cypress lumber, 800 lin. ft. 1½-in. wrought-iron hand rail, 1200 lin. ft. 6-in. to 10-in. T. C. drain tile; plans and specifications at office Supt. of Public Works, Columbus, Robert & Co., Archt.-Engr., Bona Allen Bldg., Atlanta; cost about \$50,000; furnishings, equipment, etc., \$25,000, later.*

Mass., Natchez—City, Mr. Whittington, Mayor, will establish tourist camp; Joseph Burns, Archt.

Miss., Yazoo City—Yazoo County votes March 31 on \$50,000 courthouse bonds; Claude H. Lindsley, Archt., Lamar Life Bldg., Jackson.*

N. C., Carthage—Town will soon receive bids for fire station; Carolina Engineering Co., Engr., Charlotte.

N. C., Clinton—Sampson County Board of Commissioners, E. L. Crumpler, Chmn., receives bids March 19 for brick and concrete county home buildings; fireproof, accommodate 40 to 50; Leslie N. Boney, Archt., Murchison Bldg., Wilmington.*

N. C., Durham—City, R. W. Rigsby, City Mgr., will have plans ready for contractors March 20 for bids on fireproof municipal auditorium and theatre building; brick, stone and terra cotta, 3 stories, 70x120 ft., composition, wood and mastic floors, concrete foundation, Johns-Manville and Barrett roofs, hollow and interior tile, metal ceilings and doors, vaults, mail chutes, ventilators, steel sash and trim, wire glass, cost \$250,000; furnishings, equipment, etc., \$25,000 to \$50,000; items to be purchased include seats, scenery, asbestos fire curtain. Address Millburn, Heister & Co., Archts., Durham and Union Savings Bank Bldg., Washington, D. C.

N. C., Durham—Durham County opens bids March 23 (extended date) for brick convict camp; 1 story, 170x36x60 ft., concrete floors and foundation, metal ceilings and doors, ventilators, wire glass, steel sash and trim; cost \$25,000 to \$40,000. Address Millburn, Heister & Co., Archts., 1st National Bank, Durham, and Union Savings Bank Bldg., Washington, D. C.*

Ola., Pawhuska—Osage County Commission considers erecting addition to jail.

Tex., Breckenridge—Stephens County is having plans prepared by David M. Castle Co., Abiline, for \$300,000 courthouse and jail building; 3 or 4 stories, brick and steel and reinforced concrete.*

Tex., Marshall—Harrison County Commissioners' Court, John W. Scott, County Judge, receives bids March 21 (extended date) for Spanish renaissance-type addition to east wing of courthouse; brick and concrete, 3 stories and mezzanine, about 20 ft., cost \$20,000; plans seen at office C. G. Lancaster, Archt.*

Tex., Muleshoe—Bailey County, R. J.

Klump, County Judge, is having plans drawn by Butler Co., Lubbock, for \$60,000 court-house; bonds voted.*

Tex., Waco—McLennan County Comms., R. I. Munroe, County Judge, considers erecting jail.

Va., Portsmouth—City, J. P. Jersey, City Mgr., 404 Court St., will erect joint community hall and fire station building, probably east side Des Moines Ave., near Lincoln St.

Dwellings

Ala., Birmingham—Jemison & Co., 221 N. 21st St., reported to erect 25 dwellings, Bush Hills; cost \$150,000.

Ala., Tuscaloosa—M. C. Rumley Lumber Co., M. C. Rumley, Pres.-Treas., will start work in 30 days on five \$3000 dwellings in connection with development of 20 acres; W. H. Nicol, Constr. Engr.

Ark., Little Rock—E. O. Bagley, 3800 Hill Rd.; will erect 2 brick veneer dwellings, 216-304 Barton St.; 1 story.

Ark., Little Rock—Bracy Real Estate & Building Co., Exchange Bank Bldg., will erect dwellings, 107 Crystal Ave. and 523 Crestwood St.; latter brick veneer; total cost \$11,000.

Ark., Little Rock—E. B. Pace will erect dwellings, 2305 Bragg and 2222 Oak Sts.

Ark., Little Rock—Thibault Milling Co., E. 9th St., will erect 2 frame dwellings, foot of E. Ninth St.

Fla., Bartow—Alexander Carter, care Simonds Saw Works, Pittsburgh, Pa., purchased homesite, Meadowvista.

Fla., Bartow—E. T. Embry, Director West Construction Co., Chattanooga, Tenn., purchased homesite, Meadowvista.

Fla., Bartow—J. H. Higden, Mgr. Shearman Concrete Pipe Co., Atlanta, Ga., purchased homesite Meadowvista.

Fla., Bartow—C. D. King, Suffield, Conn., purchased homesite, Meadowvista.

Fla., Bartow—Edw. Williamson, Angola, Ind., purchased homesite, Meadowvista.

Fla., Bartow—Malone Wheless, Vice-President Simmons Hardware Co., Philadelphia, Pa., purchased homesite, Meadowvista.

Fla., Cocoa—F. H. Dunham will erect winter residence, Merritt St.

Fla., Cocoa—R. E. Hoffheins, Columbus, Ohio, will erect residence, Indian River.

Fla., Coconut Grove—Whalley Construction Co., Savannah, Ga., will erect dwelling, Salzedo St. and Le Jeune Rd., Coral Gables; 1 story; H. Geo. Fink, Archt., Miami; will erect additional dwellings.

Fla., Daytona—T. V. Cannon, Chicago, will erect residence.

Fla., Daytona—Robt. B. Clark, 140 S. Dearborn St., Chicago, plans to erect residence, N. Ridgewood Ave. near Maryland Ave., Rossmur Court; also purchased site, Virginia Park.

Fla., Fort Lauderdale—Tom M. Bryan is having plans drawn by Francis L. Abreu for \$30,000 to \$50,000 residence; 2½ stories, 72x57 ft., tile and concrete floors, concrete foundation, tile roof, hollow and interior tile, steel sash and trim. Address Archt.*

Fla., Fort Lauderdale—Mrs. Ida A. Erkins, 1429 E. McMillan St., Cincinnati, O., will erect \$50,000 Italian type residence, St. John's Point, Himmarshee Park; fireproof, 2 stories, sunken gardens, Venetian boat harbor; Francis Abreu, Archt.

Fla., Jacksonville—H. A. Halsema, 720 W. 35th St., Bldr., will erect 5-storey dwellings, 28th St. near Pearl St.; total cost \$20,000.

Fla., Jacksonville—Mrs. Josephine Simmons will erect \$11,000 residence, Post St. near Stockton St.; 2 stories, brick.

Fla., Miami—C. R. Garton will erect \$12,000 two-story residence, S. E. 15th Rd.

Fla., Miami—J. M. Page, Jr. 2318 N. E.

Second Court, will erect \$10,000 residence, N. E. 27th St., near First Ave.; 2 stories, cement block.

Fla., Orlando—Maynard H. Evans plans to erect residence, Mills and Livingston Aves.

Fla., Panama City—Ernest Pope, New York, will soon start work on residence, West Bay, Seminole Plantation.

Fla., Sarasota—Cyrus F. Wicker, Miami, will erect residence, Tangier Terrace and Siesta Key; Dwight James Baum, Archts., Spuyten Duyvil Pkwy. and Waldo Ave., New York and Sarasota.

Fla., Stuart—J. P. Bruer will erect residence, St. Lucie Estates; Pfeiffer & O'Reilly, Archts., Southland Bond & Mortgage Co., Bldg., Osceola Block and Lemon City.

Fla., Stuart—Miss Amy Burkett will erect residence, St. Lucie Estates; Pfeiffer & O'Reilly, Archts., Southland Bond & Mortgage Co., Bldg., Osceola Block and Lemon City.

Fla., Stuart—Gen. Geo. R. Dyer will erect residence, St. Lucie Estates; Pfeiffer & O'Reilly, Archts., Southland Bond & Mortgage Co., Bldg., Osceola Block and Lemon City.

Fla., Stuart—Dr. John T. Henderson will erect residence, St. Lucie Estates; Pfeiffer & O'Reilly, Archts., Southland Bond & Mortgage Co., Bldg., Osceola Block, and Lemon City.

Fla., Stuart—Frank Jagoditz will erect residence, St. Lucie Estates; Pfeiffer & O'Reilly, Archts., Southland Bond & Mortgage Co., Bldg., Osceola Block, and Lemon City.

Fla., Stuart—Harry Lyons will erect residence, St. Lucie Estates; Pfeiffer & O'Reilly, Archts., Southland Bond & Mortgage Co., Bldg., Osceola Block, and Lemon City.

Fla., Stuart—O. A. Parker will erect residence, St. Lucie Estates; Pfeiffer & O'Reilly, Archts., Southland Bond & Mortgage Co., Bldg., Osceola Block, and Lemon City.

Fla., Stuart—Pfeiffer & O'Reilly, Southland Bond & Mortgage Co., Bldg., Osceola Block, and Lemon City, are drawing plans for number of dwellings, St. Lucie Estates.

Fla., Stuart—Mrs. Mary R. Shuman will reside, St. Lucie Estates; Pfeiffer & O'Reilly, Archt., Southland Bond & Mortgage Co., Bldg., Osceola Block, and Lemon City.

Fla., Stuart—Mrs. Evelyn Singer will erect residence, St. Lucie Estates; Pfeiffer & O'Reilly, Archt., Southland Bond & Mortgage Co., Bldg., Osceola Block, and Lemon City.

Fla., Stuart—Major F. S. Wiltse will erect residence, St. Lucie Estates; Pfeiffer & O'Reilly, Archt., Southland Bond & Mortgage Co., Bldg., Osceola Block, and Lemon City.

Fla., St. Petersburg—F. C. Bushman, 826 4th St. N., will erect \$14,000 residence and garage, 16th Ave., North, and Poplar St.

Fla., Tampa—D. Collins Gillett, 8th floor Citrus Exchange Bldg., will erect residence, Riverhills Drive, Temple Terrace Estates.

Fla., Tampa—C. C. Platt will erect residence, Temple Terrace Estates.

Fla., Tampa—Wm. H. Schumacher, care Temple Terrace Estates, Citrus Exchange Bldg., is preparing plans for number of dwellings.

Fla., Tampa—Earle G. Moore, 1019 Citizens Bank Bldg., will erect \$45,000 residence, Palma Ceia Park.

Fla., Tampa—John A. Turner, Pres. Turner Music Co., 608 Franklin St., will erect \$40,000 residence, Palma Ceia Park.

Fla., Hernando—Edwards Brothers Realty Co. will erect 6 stucco dwellings; Spanish type, cost \$3500 each.

Fla., Miami—Mr. Raines, care Coral Gables Construction Co., Coral Gables, will erect \$10,000 residence, Avenue Navarre near Segovia St., Coral Gables; 2 stories, 7 rooms, 2 baths, garage with servants' quarters.

Fla., Miami Beach—M. B. Leavitt will erect \$24,750 residence, 5211 Pine Tree Drive; 10 rooms, garage and servants' quarters.

Fla., Atlanta—P. D. Christian, 61½ N.

Forsyth St., will erect 5 dwellings, 24-28-32-36-38 Hope St.; 1 story; total cost \$15,000.

Ga., Atlanta—M. G. & G. P. Norris, Forsyth Bldg., will erect \$12,000 residence, 480 Morningside Drive; 2 stories, brick veneer.

Ga., Atlanta—Claud Williams, 96 Avon Ave., will erect 5 frame dwellings, 53-57-61-65-69-73 Locust St.; 1 story; total cost \$12,000.

Ga., Douglas—Baptist Church plans to erect parsonage; Prof. J. M. Thrash, Chmn., Bldg. Comm., care A. & M. School.

Ky., Louisville—Bishop Realty Co. will erect 2 dwellings, 3807 W. Walnut St. and 2430 Napoleon Blvd.; total cost about \$10,000.

Ky., Louisville—R. F. Lowry will erect 2 dwellings, 2710 Dumesnil and 2708 Duncan Sts.

Ky., Louisville—A. G. Renau, Jr., 515 W. Market St., will erect \$11,000 dwelling, 1821 Lauderdale Rd.

Ky., Louisville—Will B. Miller Co., 12th and Oldham St., will erect 4 dwellings, 829-37 Hazel St.; total cost \$12,000.

Ky., Louisville—Frank Wagner will erect 3 dwellings, 1112-16 Charles St.; total cost about \$10,000.

Ky., Mater (Kona Station)—Elkhorn Coal Co. advises will erect no new buildings this year.*

Ky., Mayking—Geo. Gibson will erect residence; contract at once.

Ky., Whitesburg—J. M. Russell will erect residence; contract at once.

La., New Orleans—Guaranty Development Co. will erect 12 Spanish and Moorish type single bungalows, St. Charles Ave. and Marenco St.; 6 rooms, tile roofs and baths, oak floors, cost \$7000 each; Wm. E. Spink, Archt., Canal-Commercial Bldg.

La., New Orleans—Frank Locascio, 1701 S. Bernard St., will erect 2 double cottages, white and Castiglione Sts.

La., New Orleans—Russo & Menendez, 2557 Bruxel St., will erect 4 double cottages, Hope, Republic and Havana Sts.; total cost \$10,000.

La., New Orleans—E. J. Zatarain, 1931 Uppeline St., will open bids April 1 for Italian type raised bungalow, Uppeline and Miro Sts.; cost \$12,000, 1-story and basement, 34x70 ft., oak and concrete floors, concrete foundation, clay tile roof, interior and hollow tile, mail chutes, steam heating (oil equipment, Lockett & Chachere, Archts., 531 Barone St.*

La., New Orleans—W. A. Walters, 2319 Audubon St., will erect 2 duplex dwellings, Broadway and Nelson Sts. *

La., New Orleans—Gardner Plumbing Co., 1206 S. Broad St., will erect brick and stucco dwelling, Erato and Broad Sts.; 2 stories, composition roof, plate glass front.

La., New Orleans—W. A. Hood, 7824 Elm St., contemplates erecting raised bungalow, State St.

La., Rayne—E. S. McBride will erect bungalow, South Rayne.

Md., Baltimore—J. Irving Bealmeir, Fidelity Bldg., will erect 12 2-story brick dwellings, 3101-23 Brighton St.; total cost \$30,000.

Md., Baltimore—Fred L. Biggs will erect residence, Oak Crest Ave. near Harford Road.

Md., Baltimore—Dr. John A. Evans, 1012 N. Charles St., will erect residence, N. side 40th St. near University Pkwy., Roland Park.

Md., Baltimore—Lauretta Building Co. will erect 12 brick dwellings, 2626-48 Lauretta Ave.; 2 stories; total cost \$36,000.

Md., Baltimore—Frank Novak Realty Co. will erect 9 dwellings, 1502-18 Lakeside Ave.; total cost about \$54,000.

Md., Baltimore—Wm. J. Peters, Carroll Rd., will erect 12 brick dwellings, 1330-54 W. 41st St., 2 stories; total cost about \$30,000.

Md., Baltimore—Roanna Development Co., will erect 13 brick dwellings, M. side Duvalle

St. near Mount Holly St.; 2½ stories, 26x32 ft., total cost \$65,000.

Md., Baltimore—John J. Dubbelde, 2916 Wyman Parkway, will erect 18 brick dwellings, 3001-35 Gwynnns Falls Pkwy.; 2 stories, 23x24 ft.; total cost about \$70,000.

Md., Chevy Chase—Allan E. Walker Investment Co., 813 15th St. N. W., Washington, will erect 16 semi-detached brick dwellings, Jenifer St. near 42nd; rough face brick, 6 rooms and bath; to sell for about \$10,000 each.

Mo., Clayton (Ind. Branch St. Louis)—Stock Sutter Construction Co., 731 Leland St., will erect \$10,000 brick dwelling, Bemiston Addition; 30x41 ft.

Mo., Kansas City—L. Kranitz, care L. K. Construction Co., will erect 5 duplex dwellings, Rockhill Rd. and 43d St.; English, Colonial and Spanish types, 7 rooms and 2 baths on each floor; Victor J. DeFoe, Archt., 203 Bruening Bldg.

Mo., Kansas City—Judge John C. Pollock, 7th and Minnesota Sts., will erect Italian type residence, 59th St. and High Drive; Edw. W. Tanner, Archt., 6410 Washington St.

Mo., Kennett—Gus Lasswell will erect 25 dwellings.

Mo., St. Louis—Geo. W. Storts purchased homesite, Seibert Ave., near Gravois Rd.

Mo., St. Louis—E. L. Wagner Construction Co., 739 Leland St., contemplates erecting 9-room dwelling, Washington Terrace and Clara St.

Okl., Oklahoma City—A. H. Webb will erect \$10,000 dwelling, 720 E. 16th St.

S. C., Barnwell—Solomon Blatt will erect face brick veneer bungalow; 6 rooms, 2 baths; J. H. Sams, Archt.

S. C., Callison—J. A. Callison plans to rebuild residence noted burned.

N. C., Charlotte—J. W. Barber, 1402 E. Fourth St., will erect 9 frame tenant houses, 1000 block E. Fifth St.; 1 story, 6 rooms; total cost \$11,000.

N. C., Charlotte—H. C. Sherrill Co., 34 S. Tryon St., will erect 9 dwellings, 1017-21-1120-29-37 Greenwood Cliff, 1013-1209-23 Harding Place and 904 Coddington Ave.; total cost about \$60,000.

N. C., Durham—P. H. Smith, Foster St., will erect 4 dwellings, Roney St.; total cost \$10,000.

N. C., Greensboro—D. Burton May reported to erect residence, W. Davis St. Extension.

Tenn., Knoxville—Fielden & Waller, 200 W. Vine Ave., will erect 4 brick veneer dwellings, White Ave. near Ninth St.; English and Dutch Colonial types; total cost about \$50,000; Barber & McMurry, Archts., 425 W. Clinch Ave.

Tenn., Knoxville—J. D. Carringer will erect residence, Scenic Drive.

Tenn., Knoxville—H. E. Rogers, 900 Jocksboro St. will erect 11 frame dwellings, Belle Air Ave., James St., Cedar St., Emoriland Addition, Lanville Ave. and Sevierville Pike, Virginia Ave. and Spence St., 1718 E. Fifth Ave., 1516 White Ave., and Third Ave. and Wells Sts.; total cost \$34,000.

Tenn., Memphis—E. R. Gardner, 1743 Glenwood St., will erect brick veneer residence, East Parkway, South, near Lamar Blvd.; 2 stories, 2 baths, sun porch with stone walls and tile floor; Jas. J. Broadwell, Archt. Constr. Supervisor, Germania Bank Bldg.

Tex., Beaumont—Wesley W. Kyle, 214 Kyle Theater Bldg., will erect \$12,000 residence and garage, Laurel Ave. and Eighth St.; 2 stories, stucco.

Tex., Dallas—F. T. Browne will erect \$20,000 residence, Parks Estates; English type, common brick, 9 rooms; David R. Williams, Archt.

Tex., Dallas—Dallas Home Company, 4908 S. Central Ave., will erect 5 frame cottages,

Jerome St.; 5 rooms, frame; total cost \$12,500.

Tex., Dallas—E. H. Ray, 6140 Bryan Parkway, will erect \$21,600 residence, 6281 Oram St.; 10 rooms, brick veneer.

Tex., Dallas—E. L. Rippy, 1027 Kings Highway, will erect \$10,000 residence, 3400 Princeton St.

Tex., Dallas—Mrs. J. A. Smith, 2320 S. Blvd., will erect \$12,000 residence, 3706 Armstrong St.; 8 rooms, brick veneer.

Tex., Dallas—Walter Whitely ill erect \$20,000 residence, 4208 Lorraine St.

Tex., Dallas—S. L. Young will erect \$10,000 residence, 3726 Shenandoah St.

Tex., Fort Worth—L. A. Henderson will erect \$10,000 brick and veneer residence, 2365 Forest Park Blvd.

Tex., Fort Worth—Oakhurst Land Co. will erect 7 dwellings, 516 Carnation, 1705-1621-1909 Sylvania, 2336 Aster Sts., 2329 Daisy Lane and Oakhurst Addition; total cost \$24,000.

Tex., Fort Worth—E. A. Shotts will erect \$12,000 brick veneer residence, 2300 Edwin St.

Tex., Houston—Crain Ready Cut House Co., Milk and Polk Sts., will erect \$11,500 brick veneer residence and garage, Herman Park addition; 11 rooms, 2 stories.

Tex., Houston—Harry Giles, 2626 Austin St., will erect \$13,500 residence, 1201 Autrey St.; 2 stories, frame and brick veneer, 5 rooms, bath, sun parlor, frame garage.

Tex., Galveston—Peter M. Gengler, 2020 K St., will erect brick veneer residence, 1525 Avenue J; 6 rooms and bath; work started.

Texas—Ralph H. Cameron, City National Bank Bldg., San Antonio, is drawing plans for residence, Patterson Ranch, Kimble County; 2 stories, native stone.

Tex., San Antonio—Richard Grosse, 525 Wyoming St., contemplates erecting residence, Greely St. near Hondondo St.

Tex., San Antonio—L. S. Busby will erect number of dwellings, W. Summitt and W. Mulberry Aves.; frame and brick, tile; total cost about \$125,000.

Tex., San Antonio—Mrs. Isadore Plotke, care St. Anthony Hotel, will erect \$18,000 Colonial residence, Culebra Rd., 10 miles from San Antonio; 9 rooms, metal lath and stucco, Deleo lighting system; Ellis Albaugh, Jr., Archt., 134 Armour St., care Albaugh-Wright Lumber Co.

Tex., Sanderson—Joe Kerr will erect \$15,000 residence; 1 story, brick, tile and stucco; Henry T. Phelps, Archt., Hicks Bldg., San Antonio.

Va., Richmond—Mrs. A. C. Bialkowski and G. R. Bialkowski will erect 3 brick dwellings, 405-11 Gilmer St.; 2 stories; total cost \$10,000.

Va., Roanoke—E. M. Hammond, 205 Albemarle St., will erect \$17,500 brick-cased dwelling, Wycliffe Ave.

Va., Roanoke—J. P. Pettyjohn & Co. will erect \$25,000 brick-cased dwelling, 610 Wellington Ave.

Va., Roanoke—E. G. Upson, 1201 2d S. W., will erect 2 dwellings, 805-07 Berkley Ave.; cost \$5000 each.

W. Va., Martinsburg—Jacob L. Morgan, plans to erect building, Berkeley Place.

W. Va., Wheeling—Ernest Rutter, 101½ E. 11th St., will erect \$10,000 frame residence, Damion St., Edgewood.

Government and State

Fla., West Palm Beach—D. F. Dunkle is president of corporation to erect \$300,000 post office and store building, Datura St.

Tex., Kennedy—J. E. Seales and associates will have plans completed March 26 and call for bids for post office and store building; 1 story, 48x50 ft., tile, concrete, brick and stucco; cost \$15,000; Beverly W. Spillman,

Archt., Alamo Bank Bldg., San Antonio.*

W. Va., Moundsville—State Board of Control, Jas. S. Lakin, Pres., Charleston, plans to erect \$150,000 woman's annex at State Penitentiary.

Hospitals, Sanitariums, Etc.

Ark., Little Rock—Herron & Joy will erect \$10,000 veterinary hospital, 720 State St.

Fla., Arcadia—DeSoto County Chamber of Commerce, Mr. LeMoine, Pres., interested in calling bond election for new hospital or remodeling present structure.

La., New Orleans—Touro Infirmary will erect \$75,000 addition to nurses' home; and improve old hospital building, including new screens, floor covering and Venetian blinds; Emile Weil, Archt., Whitney Bldg.

N. C., Kinston—Dr. Paul Whitaker, Floyd P. Wooten, and others pledged \$75,000 for erection of Memorial General Emergency Hospital, N. Queen St.

Okla., Vinita—Eastern Oklahoma Hospital for Insane, Dr. F. M. Adams, supt., advises contracts will not be made until July 1 for \$180,000 receiving building, \$35,000 tuberculosis hospital and \$25,000 cold storage plant.*

W. Va., Huntington—Logan and Guyan Valley Hospitals will combine, Dr. L. E. Steele, interested, and renovate and improve Guyan Valley Hospital building; cost \$30,000 to \$40,000.

Hotels and Apartments

Fla., Bonita Springs—Estate of H. E. Heitman, care Gilmer M. Heitman, has plans in progress by Mr. Sparkling, all Fort Myers, for 2-story, 30-room, wood and stucco hotel building; wood floors, built-up roof, brick foundation, plaster board.*

Fla., Cocoa—Albert H. Smith and L. I. Spidell broke ground for \$25,000, 3-story, hollow tile building, Brevard Court and Orange St.; 6 rooms for stores or offices on first floor, 6 apartments each on floors above; R. W. Rummell, Archt.

Fla., Fort Lauderdale—Samuel and Doris Huhn plan to erect 3-story, hollow tile, 30-room hotel building, Osceola Ave.

Fla., Jacksonville—J. E. Economie purchased N. E. cor. Forsyth and Ocean Sts.; will expend \$30,000 for remodeling 24-apartment building; also remodel adjoining building.

Fla., Lakeland—Hotel Lakeland Terrace will add \$600,000 wing of 150 rooms and bath during summer.

Fla., Miami—Charles S. Ewing, Bedford Bldg., will erect \$12,000, 3-story, cement block store and apartment building, 115 N. E. 14th St.

Fla., Miami—James D. O'Brien, Pres. of Tourist Club of Miami, reported to erect 3-story apartment house at cost of \$1,200,000 to cover 13 acres, with auditorium to seat 10,000 people.

Fla., Miami—Edward Ettel, 607 N. W. 2nd St., has plans by John Schulthorpe; will soon start work on \$125,000, 54-room reinforced concrete, Spanish-type apartment hotel, S. W. 2nd St., near N. River Drive.

Fla., Miami—H. G. Greene has plans in progress by Charles P. Nieder for \$25,000, 60x100 ft., 2-story, 8-family apartment building, N. E. 22nd St. and 5th Ave.

Fla., Miami—Mr. Steifel will erect \$21,000, 2-story, concrete block, 8-apartment building, S. W. 2nd St.

Fla., Orlando—James L. and LeRoy B. Giles, B. & T. Bldg., announced plans for \$400,000, 6-story, 68x228-ft. hotel, W. Washington St. near Orange Ave.

Fla., Orlando—F. W. Gunung purchased lot on E. Ridgewood near Cathcart Sts. as site for proposed apartment building.

Fla., Plant City—City successfully completed \$150,000 hotel campaign; I. M. Allen

CONSTRUCTION DEPARTMENT

offered to donate site east of Wateroak Canal, between Baker and Reynolds Sts.; address Joe C. Jenkins of Chamber of Commerce.*

Fla., St. Petersburg—Howard Walker will erect \$15,000, 2-story, frame, 8-room apartment house of 24 rooms, 13th Ave. north and Oak Sts.

Fla., Tampa—Frank F. Pulver announced plans for erection of \$1,000,000 hotel; 12 stories, 320 rooms, leased property on Fafayette St., between Parker St. and Hillsborough River; 102-ft. frontage, 150 on Parker St. and 152 ft. deep; E. V. Moore, representative, 205 Ferlita Bldg.*

Fla., Tampa—W. L. McNevin, Pres. of W. L. McNevin & Co., developers of Maryland Manors and Virginia Park, announced plans for apartment building and business buildings.

Fla., Vero—F. C. Schoenthaler will erect 16-apartment house, Seminole Ave. and 24th St.; 8-apartment unit will be built now.

Fla., Tavares—W. F. Rhinehardt, Dodge City, Kan., purchased property on Irma St. and 3 lots on Rockingham St.; will erect apartments on Rockingham and improve business property on Irma St.; work to start in fall.

Fla., Vero—W. H. Christison, Moline, Ill., and Herman J. Zeuch, Davenport, Ia., will erect 3-story, \$75,000, hollow tile and stucco building, N. E. cor. Osceola Blvd. and Cherokee Ave.; 7 store rooms on first floor, 13 apartments above.

Fla., West Palm Beach—M. Rothman, owner of Rothman Hotels, Atlantic City, N. J., announced erection of apartment building, Olive St. near Eighth Ave.

Ga., Atlanta—Baron Wilson interests, operators of Robert Fulton Hotel, purchased lease and furnishings of Cecil Hotel, will expend \$50,000 for redecorating, furnishing and repapering.

Md., Baltimore—Clark Realty Co. will erect \$75,000, 4-story, brick apartment house, N. W. cor. St. Paul and 32nd Sts.; Clyde N. & Nelson Friz, Archts., 2010 Lexington Bldg.

Md., Baltimore—William E. Wood & Co., 18 N. Howard St., acquired residence, Maryland Ave. and 22nd St.; considering converting into apartments.

Mo., Clayton (Ind. Br. St. Louis)—E. Albagner, 722 Chestnut St., will erect \$20,000, brick, 66x40 ft., apartment building, 6328 Northwood St.

Md., Mountain Lake Park—W. S. Haddock, Lock Box 4, Moundsville, W. V., considering erection of hotel.

Mo., St. Louis—Emile G. Wagner purchased lot in De Mun Park; will erect apartment building.

N. C., Asheville—Asheville Building Securities Co., composed of Chicago men, represented by Ronald Greene, plans to erect \$440,000, 8-story hotel, with 150 rooms and 100 baths; plans to lease property on Walnut St., 75x140 ft.; lobbies and dining room on main floor; 100-car garage.

N. C., Asheville—Frank A. Barber, Edwin Place, Grove Park, and associates have plans in progress by A. C. Worth for \$100,000, 5-story apartment-hotel building, Woodfin and Market Sts.; stores on first floor and 5 apartments on each floor above.

N. C., Charlotte—Osmond L. Barringer, 28 W. Trade St., has plans by Herbert B. Hunter, High Point, for \$85,000, 21-apartment building of 4 room suites; tile bath-rooms, showers.

N. C., Mount Mitchell—F. A. Farley of Mt. Mitchell Development Co., reported to start work soon on \$30,000, 25-room hotel.

Tex., Dallas—Robert and Harry Arons, 2915 Reiger St., will erect \$10,000, 16-room, brick veneer, 4-apartment building, 3830 Colonial St.

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Oklahoma, Tulsa—Roy S. Dodd, 1627 S. Quincy Ave., contemplates erecting \$75,000, 3-story and basement apartment building.

S. C., Rock Hill—Hockenbury System, Inc., Harrisburg, Pa., made survey of needs of hotel; J. R. Shirley, Asso. Sec., citizens' committee.

Tex., Dallas—George R. Cox will erect \$11,000, 16-room, brick veneer apartment building, 4234-6 Prescott St.

Tex., Houston—Robert E. Lee Hotel Co., care Percy Tyrrell, Pres., West Bldg., will erect \$400,000, 10-story, 200-room, brick and reinforced concrete hotel.

Tex., Lubbock—R. L. Ewing, Floyada, soon let contract for converting Pearl Rooming House into apartment building.

Tex., San Antonio—Mrs. R. E. Lee, 905 San Pedro Ave., rejected all bids for erecting \$15,000, 2-story, Colonial type apartment house, San Pedro and Laurel Sts.; will revise plans; Harvey P. Smith, Archt., National Bank of Commerce Bldg.*

Va., Richmond—Granby Building Co., Inc., has plans in progress by L. Otis Spiers, 3418 Floyd Ave., for \$30,000, brick, 40x64 ft. apartment building; wood floors.*

Va., Richmond—Mrs. A. B. Bialkowski will erect three flats, 409-13 Gilmer St.; \$10,000.

W. Va., Huntington—Thomas L. Roffe will erect \$12,800, 24-room apartment building.

Va., Richmond—M. B. Florsheim, Bellevue Pk., announced work to start within 60 days on \$350,000 3-story building, 55 kitchenette apartments and 5 stores; semi-Spanish design, brick and terra cotta trimming.

W. Va., Parkersburg—Bank Block Investment Co. incorporated by E. A. Brast, Chancellor Hotel, and others with \$700,000 capital stock, for construction of 100-room addition to Chancellor Hotel.*

W. Va., Parkersburg—West Virginia Apartment Corp. will erect \$200,000, 34-suite apartment building; S. D. Folwell, Archt.

Miscellaneous

Fla., Fort Lauderdale—Fort Lauderdale Anglers' Club will soon open bids for \$30,000, 1-story, 82x85 ft., Italian style, reinforced concrete, tile and stucco clubhouse.

Fla., Fort Myers—Gymnasium—Fort Myers Athletic Assn. has plans for 85x50 ft., Spanish type gymnasium and 15x90 ft. swimming pool; first floor for lockers and shower baths, room for athletic events, second floor for gymnasium and basket ball court.

Fla., Jacksonville—Clubhouse—Spring Glen Community Club, care Mrs. Etta L. Hall, plans to erect clubhouse.

Fla., Tampa—J. W. Cooper purchased First Christian Church property, Marion and Twiggs Sts.; plans improvements.

Ga., Dalton—Lesche Women's Club and Bryan M. Thomas Chapter, U. D. C., plans to erect clubhouse, Confederate Memorial Park, between Thornton Ave. and Cleveland St.

Ky., Fulton—Clubhouse—Lions Club committee composed of L. J. Clements, J. C. Wiggins and C. H. Warren, plans to erect clubhouse on Reelfoot Lake.

N. C., Hickory—Palmetto Holding Co., Miami, Fla., purchased Baker's Mountain Orphanage property, will erect \$30,000 to \$35,000 building.

Tex., Dallas—Home—Buckner Orphans' Home Board has plans by Flint & Board, Melba Bldg., opened bids for \$75,000, 3-story and part basement, reinforced concrete and brick, fireproof dormitory; tile roof, tile baths, tile floors in corridors.

Tex., Greenville—I. M. Stringer of Stringer & Sons announced purchase of Masonic lodge building; soon let contract for remodeling

into undertaking establishment; Will Ragsdale, Archt.

Tex., Lamesa—Clubhouse—Country Club plans to organize, erect clubhouse, swimming pool, golf links, etc.

Tex., Seabrook—Clubhouse—Houston Yacht Club, O. H. Carlisle, commodore, Houston, plans to erect \$60,000, 3 or 4-story clubhouse this summer.

Va., Salem—Home—Board of Trustees of Lutheran Orphan Home for the South, Rev. J. Luther Sieber, D. D., Pastor, St. Mark's Evangelical Church, Roanoke, Pres., raised \$120,000 of proposed \$200,000 for new buildings for Lutheran Orphans' Home; George C. Baum, Archt., 1511 Arch St., Philadelphia, Pa., preparing plans.

Railway Stations, Sheds, Etc.

Ala., Phenix City—Central of Georgia Rwy. Co., C. K. Lawrence, Ch. Engr., Savannah, Ga., considering erecting station to replace building recently burned.

Tenn., Gallatin—Chamber of Commerce interested in securing Louisville & Nashville Rwy. Co. depot; address W. H. Courtney, Ch. Engr., Louisville, Ky.

Schools

Ala., Gadsden—T. W. Raley and L. B. Jones named chairmen of Finance and Building Committee, for \$25,000, 1-story, 8-room and auditorium school building in East Gadsden.

Ark., Mansfield—School Board contemplates erection of High School building.

D. C., Washington—District Commissioners approved purchase of property adjoining Park View School for \$154,000, 8-room addition; also lot for addition to Langley Junior High School.

Fla., Fort Meade—Polk County Board of Commissioners called election in Fort Meade Special School Tax District, on \$100,000 bonds for erecting elementary school and improvements to present building.

Fla., La Belle—La Belle School District voted this week on \$50,000 bonds; Hendry County Board of Public Instruction, Mr. Pfleuge, Supt., selected E. C. Hosford, Lake-land, to prepare plans for school building.

Fla., Lake Alfred—School Commissioners have plans in progress by Fred Hosford, Lake-land, for \$80,000, brick and stone High School building.

Fla., St. Petersburg—Special School Tax District No. 3 voted \$1,160,000 bonds; Wm. B. Ittner, St. Louis, Mo. and M. Leo Elliott, Tampa, Archts. working on building program.*

Ga., Augusta—Greater Richmond Academy Building Commission selected Scroggs & Ewing, Archts., Lamar Bldg., to prepare plans for High School building.*

Ga., Macon—Board of Education W. T. Morgan Sec., plans to expend \$100,000 for new school to replace old Newberg school.

Ky., Louisville—Kentucky School for the Blind has \$30,000 appropriation for erecting and equipping heating plant and laundry for white and colored departments.

Ky., Pikeville—R. T. Huffman heading movement for erecting \$100,000 school building; contract by April 1st.

La., Lake Charles—Wm. R. Burk, Archt., Balter Bldg., New Orleans, will complete plans in 30 days for \$50,000, 2-story, brick and mill parochial school building; 10 rooms and auditorium, heating and plumbing, composition roof.

Fla., Wauchula—Board of Education will sell \$75,000 bonds for new building; H. G. Little, Archt., preparing plans.

La., Lafayette—Lafayette Parish School Board selected Wm. T. Nolan, Canal-Commercial Bldg., New Orleans, to prepare plans and specifications for elementary school, high

school and probably educational school for negroes; cost between \$275,000 and \$300,000.*

Md., Hyattsville—Prince Georges County Board of Education, Nicholas Orem, Supt., Upper Marlboro, receives bids March 23 at Engine House for addition to High School building and heating, lighting and plumbing; plans and specifications may be obtained from Snowden Ashford, Archt., 1707 Eye St. N. W., Washington, D. C.*

Md., Princess Anne—Morgan College Corp., J. O. Spencer, Pres., has plans in progress by Herbert R. France, 1520 E. 28th St., both Baltimore, for \$40,000, 3-story, 71x84 ft., brick and concrete classroom building; slag roof, concrete and brick foundation, wood and concrete floors; cost of equipment, furnishings, etc., \$5000.*

Md., Sabillasville—Frederick County Board of School Commissioners, G. Lloyd Palmer, Sec., Frederick, receives bids until March 20, for elementary school, Creagerstown and Sabillasville.*

Md., Upper Marlboro—George Palmer, Chmn. District Line School House, Seat Pleasant, Md. (mail Washington, D. C.), receives proposals until March 28 for 10-room brick school building at Maryland Park; plans and specifications may be obtained from Nicholas Orem, Supt., Prince George's County Board of Education.

Miss., Handsboro—Harrison County Board of Supervisors, Gulfport, will call election April 4 in Handsboro Separate School District No. 4, on \$21,000 bonds for new school building.

Mo., Cape Girardeau—Board of Education, Lee L. Bowman, Pres., considering calling election April 7 on bonds for school improvements.

Mo., Marshfield—School Board will call election April 7 on \$25,000 bonds for addition to school building.

Mo., St. Louis—Board of Education approved preliminary drawings for school stadium reported to eventually cost \$1,250,000 and sent 50,000: working drawings started; R. M. Milligan, 4156 Flora Bldg., Archt. and Engr.

N. C., Beaufort—City voted this week on \$100,000 bonds for high school building; address Board of Education.

N. C., Lexington—Board of School Commissioners, Dr. J. R. Terry, receives bids until March 31 for erecting Cecil Elementary school building, after plans by C. Gadsden Sayre, Archt., Greensboro and Raleigh; separate bids for heating and ventilating, for plumbing, and for electric wiring and conduit work; plans and specifications may be seen at office Archt., 435 Jefferson-Standard Bldg., Greensboro, and Chamber of Commerce, Charlotte.*

N. C., High Point—School Commissioners contemplate \$750,000 bond election for school expansion, including new High School building.

N. C., Lexington—City votes April 21 on \$50,000 bonds for enlarging and equipping school building, and additional ground.

N. C., Yanceyville—Caswell County Board of Education receives bids until March 23 for erecting and heating 2 school buildings; plans and specifications may be examined at office Supt. Isley or secured from Linthicum & Linthicum, Archts., Raleigh.

S. C., Lynchburg—J. H. Sams, Archt., Columbia, preparing plans for brick, 6-classroom and auditorium High School building. Address Board of Education.

N. C., Salisbury—Willard G. Rogers, Lanton Bldg., Charlotte, and Percy Bloxam, retained as architects for Catawba College group of buildings; bids opened for \$50,000, 2-story, 34-room dormitory.*

S. C., Skyland—Buncombe County Board of Education, Frank L. Wells, Supt., receives bids until March 25 for school building to be

known as Valley Springs School, on Long Shoals Road; plans and specifications may be obtained from William H. Lord, Archt., 17½ Church St., both Asheville.

Okla., Lawton—Cameron Agricultural College contemplates erecting \$50,000 girls' dormitory.

Okla., Sayre—Election defeated \$50,000 bonds for erecting school; Butler Co., Archt., Oil Exchange Bldg., Oklahoma City; will call another election soon.

S. C., Langley—Langley School District Board of Trustees, care J. B. Parker, contemplates bond election for erecting brick and hollow tile High School, cost about \$35,000. S. C., Union—Board of Trustees Union School District sold \$150,000 bonds; has tentative plans by Harold Tatum, Columbia, for improvements.

Tenn., Chattanooga—School Board, J. S. Ziegler, Supt., selected R. H. Hunt Co., James Bldg., Archts. for proposed Junior High School building, Twelfth Ward; 12 classrooms, auditorium, cafeteria and manual training rooms; \$100,000.

Tenn., Lebanon—Cumberland University, Dr. John Royal Harris, Pres., considering replacing 4-story men's dormitory recently burned at \$100,000 loss, and also erection of girls' dormitory.

Tenn., Maryville—Blount County defeated \$200,000 school bonds; address Judge Sam Johnson, Chmn. Blount County Board of Education.*

Tex., Amherst—Board of Education selected The Butler Co., 206 Wilson Bldg., Lubbock and Oklahoma City, Okla., prepare plans for \$110,000, brick and concrete school building; bond election soon.*

Tex., Childress—School District voted \$125,000 bonds for erecting brick and tile High School building; F. A. Westmoreland, Sec. Board of Trustees.*

Tex., Cisco—School Board, D. S. Rumph, Pres., has plans by R. S. Glenn for 16-room, brick and reinforced concrete school building; bond election March 28 on \$35,000 bonds; \$13,500 now available.

Tex., Fort Worth—Southwestern Baptist Seminary will start work in Sept. on \$150,000 memorial hall, gift of Mrs. George E. Cowden; 170x140 ft.; Sanguinet, Staats & Heidrick, Archts.

Tex., Georgetown—Southwestern University, J. Sam Barcus, Pres., has plans in progress by C. B. Schoeppl & Co., Archts., Humble Bldg., Houston, for \$225,000, brick, stone and reinforced concrete, 3-story, fireproof, 38x311 ft. Women's Building, replace structure destroyed by fire.*

Tex., Kerrville—Schreiner Institute Board of Trustees opens bids March 19 for dining hall and dormitory building; \$54,000, 2 stories, brick and reinforced concrete; Adams & Adams, Archts., Gibbs Bldg., San Antonio.*

Tex., Kingsville—Kingsville Independent School District Board of Trustees has plans in progress by C. H. Page & Bro., Austin, for \$100,000, 2-story, 14-room and auditorium, brick and concrete, fireproof high school building, to replace structure recently burned; concrete and tile roof, concrete floors and foundation; plan \$75,000 bond election. Address Archts.*

Tex., Mexia—Mexia Independent School District Board of Trustees will call election April 11 on \$100,000 bonds; L. H. Leinbach, Archt., Deere Bldg., Dallas, preparing plans for 24-room addition to McKinney School and 12-room addition and remodeling Sumpter St. school.*

Tex., Sabinal—Board of Education contemplates \$65,000 bond election for new school building; brick and concrete.

Tex., Sherman—Austin College contemplates erecting \$22,000, brick and steel gymnasium building.

Tex., San Antonio—Westmoreland College,

Dr. E. R. Stanford, Pres., plans campaign for \$150,000, to build dormitory to house 100 students.

Tex., Temple—City votes April 6 on \$285,000 bonds, including \$210,000 for additions to High School and Reagan and Central Grammar Schools, improvements to other buildings.*

Va., Altavista—Campbell County School Board, Leo A. Arthur, Chmn., considering erecting annex to High School, containing 6 classrooms and auditorium.

Va., Brookneal—Campbell County School Board, J. J. Fray, Div. Supt., Rustburg, does not contemplate erecting High School building.*

Va., Charlottesville—School Board opened bids for Colored School building; construction soon.

Va., Danville—City will vote May 5 on \$350,000 school bonds. Address School Board.*

Va., Hollins—Hollins College, Joseph A. Turner, Gen. Mgr., has plans in progress by Frye & Stone, MacBain Bldg., Roanoke, for 126x53.6 ft., brick, 2 and 3-story music building; beech or maple floors, cement foundation, slate roof, hollow tile, ornamental terra

Va., Westhampton (R. Sta. Richmond)—St. Christopher's School, care Rev. E. L. Woodward, M.D., will erect cottage dormitory and other buildings.

Stores

Ala., Birmingham—Towles Cleaning & Dyeing Co., 1031 N. 13th St., will erect \$14,000 building.

Ala., Tuscaloosa—R. H. Cochrane and S. F. Clabaugh have plans in progress by W. L. Welton, American Trust Bldg., Birmingham, for 1-story, brick, 95x109 ft., 8-store building, 6th St. and 25th Ave.; cement floors, concrete foundation, tar and gravel roof, hollow tile, metal ceilings, ornamental terra cotta.*

Fla., Bartow—MacLean & Carter, Chicago, Ill., purchased property, will erect business block.

Fla., Cocoa—J. N. Dunham of East Lumber & Supply Co. will erect 36x120-ft. building, contain store with rooms above.

Fla., Fort Lauderdale—W. C. Kyle and C. G. Rodes announced purchase of property on Brickell Ave. and plans for \$50,000 3-story commercial, office and apartment building.

Fla., Fort Lauderdale—A. Morrell, Chicago, Ill., purchased property, N. W. corner Las Olas Blvd. and Osceola Ave.; reported to erect business building.

Fla., Lake Worth—J. Leonard Reploge, Pittsburgh, Pa., purchased Reanno building; will erect additional stories.

Fla., Miami—Raiston Brothers Co., Calumet Bldg., owners of Anglers' Club property, announced plans for 2-story arcade and office building, first unit to cost \$200,000, completed building \$1,000,000.

Fla., Tampa—Trice-O'Neal Furniture Co., 1011 Franklin St., purchased lease on property, Franklin and Harrison Sts.; will erect 4-story building.

Fla., Tampa—W. W. Leavine, Nebraska Ave., has plans in progress by F. D. Parslow, Archt., and R. B. Gambier, Asso. Archt., for \$30,000, 2-story, 60x65 ft. store and apartment building, Nebraska and Lake Aves.; concrete floors and foundation, 4-ply built-up roof, hollow tile.

Ga., Atlanta—Asa G. Candler, Jr., Inc., will erect \$2,500,000 department store, Peachtree and Ellis Sts., 6 stories and 2 basements; \$500,000 theater in rear of store, \$400,000 garage, Spring St. and Carnegie Way; store building 261x185 ft., to be equipped with 6 elevators, ventilating system and other facilities, including garage space in lower basement; will be leased to R. H. Macy & Co.,

Inc., New York; Starrett & Van Vleck, 8 W. 40th St., New York, and Hentz, Reed & Adler, Candler Bldg., Asso. Archts.

Ky., Mayking—Charles Hogg will erect store building; contract within 10 days.

Ky., Sargent—W. B. Webb will erect store building; contract at once.

La., New Orleans—E. M. Reynes, Archt., 1418 Bourbon St., opened bids for 1-story, brick, 33x114 ft. business building for Uddo Bros., Inc., Barracks between Chartres and Decatur Sts.; \$12,000, composition roof.

La., New Orleans—F. W. Roberts received bids for \$12,000, 1-story, brick, 3-store building, Canal and Galvez Sts.

La., New Orleans—Canalborne Real Estate Development Co., Inc., leased B. G. Carbajal property, Canal St. and Claiborne Ave., for \$350,000, 7-story commercial building; Favrot & Livaudais, Ltd., Archts., Hibernia Bldg.

Md., Baltimore—Abramson & Oilner, Equitable Bldg., purchased building, 547 N. Carey St.; convert upper floors into apartments, install stores.

Md., Frostburg—Emory Hitchins, Mgr. of Hitchins Brothers Department Store, recently burned at \$350,000 loss; announce plans for rebuilding.

Mo., Joplin—L. E. Leek, 508 N. Moffett St., will remodel and install new front building at Sixth and Main Sts., for drug and jewelry store.

N. C., Greensboro—W. C. Boren, Pres. of Pomona Terra Cotta Co., and B. W. Rainey, Pres. Johnson-Forbis-Simmons Furniture Co., 206 W. Market St., let tentative contract for \$50,000, 5-story building, Gaston and Green Sts.; Harry Barton, Archt., 129 Wainman St.

N. C., Hendersonville—C. F. Toms, Jr., and S. H. Hudgins, 202 Sixth Ave., W., have plans in progress by Earl G. Stillwell, for \$75,000, 2-story, brick and stone, 49x145-ft. building, Fourth Ave., west, to contain shops, bank, office and apartments; composition roof, tile, wood and concrete floors, concrete foundation, hollow tile, interior tile, vaults, vault lights, ventilators; major items to be purchased include brick, limestone, heating and plumbing.*

N. C., High Point—W. D. Simmons & Son, Box 306, has plans in progress by F. B. Klein, for 2-story and basement, 40x120-ft. brick and steel store building, 128 S. Main St.; hardwood and concrete floors, concrete foundation, hollow tile, metal ceilings, ventilators, vault lights, ornamental terra cotta, steel sash and trim, wire glass; major items to be purchased include rough and face brick, terra cotta, structural steel, metal lumber, cement and hardwood floors.*

Okla., Blackwell—William McDaniel plans to erect 2-story, brick building at rear of Gurley Bldg.

S. C., Spartansburg—Aug. E. Smith Co., 112 E. Main St., has plans started by Lockwood, Greene & Co., 24 Federal St., Boston, Mass., and Spartansburg, for \$150,000, 4-story 75x150 ft. department store building, E. Main and N. Liberty Sts.*

Tex., Dallas—Gaston Avenue Investment Co. will erect 7 brick stores, 807-9-11 Carroll St.; \$12,000.

Tex., Galveston—S. and George Musey, 911 19th St., will erect \$50,000, 1-story, hollow tile and concrete community store building, 23rd St. and Avenue N.

Tex., Littlefield—R. C. Hopping has plans by G. S. Glenn, Lawton, Okla., and Littlefield, for \$10,000, 1-story, 50x80 ft., brick and tile store building; edge grain pine floors, reinforced concrete foundation, tar and gravel roof.

Tex., Littlefield—W. G. Street has plans by G. S. Glenn, Lawton, Okla., and Littlefield, for \$10,000, brick and tile, 50x80 ft. store building; 1 story, edge grain pine floors, rein-

forced concrete foundation, tar and gravel roof.

Tex., San Antonio—George B. Dihl, Fredericksburg Road, contemplates erecting 1-story, brick and hollow tile business building, Monterey and Pecos Sts.

Tex., San Antonio—M. T. Liles, 515 N. Woodlawn Ave., and H. W. Carnahan, 1406 W. Mistletoe Ave., contemplate erecting business buildings N. E. and S. E. cors. Zarzamora St. and Woodlawn Ave.

Tex., San Antonio—M. D. Chitwood purchased property E. San Antonio and Cedar Sts., for business and residence purposes.

Tex., Sargent—New Furniture Co. let contract to Lee & Morgan for 3-story store building; Lindsey & Kilmer, Archts.

Tex., Temple—Dr. J. S. McElvey receives bids until March 23 for 2-story, reinforced concrete building, 110x110 ft., with 40x100-ft. building; plans may be obtained from Milton W. Scott & Co., Archts., 412½ Franklin Ave., Waco.*

Tex., Waco—Sanger & Jester will erect 1-story and basement building, Washington St. between Fourth and Fifth Sts.

Tex., Wharton—Mrs. J. R. Davis razing frame building; will replace with 2-story brick store.

Tex., Yorktown—Herman Schmidt opens bids Mar. 20 for \$30,000, semi-fireproof, 2-story, brick and reinforced concrete store building; Atlee B. & Robt. M. Ayres, Archts., Bedell Bldg., San Antonio.*

Theaters

Fla., Frostburg—F. C. Thompson has plans in progress by T. S. Rockrise, 597 Fifth Ave., New York, for 1 and 2-story, 58x100 ft., fireproof picture theater building; concrete floors and foundation, built-up roof, hollow tile, interior tile, metal ceilings, ventilators, ornamental terra cotta.*

Fla., Sarasota—A. B. Edwards announced erection of theater, Pineapple Ave.

Ga., Columbus—Roy E. Martin, 3167 2nd Ave., will erect theater building near Jordan City.

Tenn., Covington—Robert Miller announced plans for remodeling building on public square, to be operated as theater by L. L. Lewis.

Tenn., Nashville—Crescent Amusement Co., Tony Sudekum, Pres., has plans by Marr & Holman, Stahlman Bldg.; will soon start work on remodeling and reconstructing present Odd Fellows Temple, Church St. and Sixth Ave., to cost \$200,000; theater in basement, first and second floors seating 1500; offices on third and fourth with lodge on top floor.

Tex., Plainview—Solon Clements will soon let contract for theater building; Paramount Scenic Co., Cherokee, Okla., scenery; Southern Theater Equipment Co., Dallas, chairs.

Warehouses

Fla., Jacksonville—N. G. Patrick, Pres. of Patrick's Inc., 15 E. Church St., purchase property, Liberty St. and Seaboard Air Line tracks, as possible site for warehouse.

Fla., St. Petersburg—Bayboro Storage & Warehouse Co., care Henry Vaughan, will erect 5-story, steel and concrete warehouse and storage building, S. E. Cor. 11th Ave., South and 2nd St.; site and first unit to cost \$100,000; 140x160 ft.

Ga., Bainbridge—Bainbridge Bright Leaf Tobacco Co., E. J. Perry, Temporary Chmn., will erect warehouse.

Ga., Moultrie—Colquitt County Tobacco Warehouse Co. will soon let contract for \$50,000 tobacco warehouse.

Ga., Waycross—W. G. Crabtree and William Barron, both Owensboro, Ky., compose company to erect tobacco warehouse.

Ky., Louisville—Gross, Parsons & Hambleton will erect \$20,000 store and warehouse, 628 S. Sixth St.

Ky., Louisville—N. B. Wigginton, 957 Cher Rd., purchased property 9th St., announced plans for warehouse and storage plant.

N. C., Lexington—Lexington Hardware Co. will erect 2-story, brick warehouse on First St. east.

Tex., Dallas—John J. Simmons has plans by J. A. Pitinger, S. W. Life Bldg.; will soon start work on 4-story, fireproof, 30,000-sq. ft. \$80,000 warehouse and office building, Griffin and Broom Sts., to be occupied by Graham Paper Co.; spiral chutes, high-pressure sprinkler system, high-speed freight elevator; also erect \$60,000, 22,500-sq. ft., 3-story, fireproof warehouse, Griffin St.

BUILDING CONTRACTS AWARDED

Association and Fraternal

Okla., Muskogee—Muskogee Plumbing & Heating Co., 112 S. 4th St., has heating and plumbing contracts for 1-story and basement temple for Masonic Building Assn., W. G. Gibbons, Pres., 200 Bedouin Temple; electric work, Arnold & Wetherbee, 116 N. Broadway, Oklahoma City; Bedford stone, Consolidated Cut Stone Co., 1323 E. 5th St., Tulsa; reinforcing steel, Concrete Engineering Co., 5th Floor, Walsik Bldg., Kansas City, Mo.; 142 by 131 ft., terrazzo, tile and concrete floors, concrete foundation, Barrett roof, hollow and interior tile, metal doors, ventilators; Bassham & Howenstine, Archts., 702 Barnes Bldg.; Jewell Hicks and W. T. Emerick, Asso. Archts., Oklahoma City; Dougherty Nichols Wilson Construction Co., 401-02 Equity Bldg., contract at \$204,341.*

Bank and Office

Ark., Little Rock—Geo. W. Donaghey, 2109 Gaines St., let contract for \$1,000,000 office building, Seventh, and Main Sts., to Kaucher, Hodges & Co., Shrine Bldg., Memphis, Tenn.: 14 stories; stores on first floor, 559 offices above; Hunter McDonnell, Archt., 247 Park Ave., New York.*

Fla., Dade City—Sunny Brook Tobacco Co., Geo. B. Massey, is erecting \$50,000 store

and office building to replace burned Sunny Brook Bldg.; brick, 3 stories, 65x100 ft.; F. M. Curtis, Archt., Tampa; Ward-Latham Co., Contr.*

Fla., Miami—Central Properties, Inc., John Seybold, Pres., Central Arcade Bldg., let contract to Ungals Iron Works, Birmingham, Ala., for steel frame for 10-story fireproof office and store addition to Central Arcade; cost \$1,000,000, hollow tile, composition roof, 6 elevators, plumbing in general contract; Kiehnell & Elliott, Archts., Central Arcade Bldg.; John B. Orr, Contr., N. E. Sixth St.; E. A. Sturman, Engr.*

Fla., Miami—First Trust & Savings Bank, Edw. C. Romph, Pres., let contract to Geo. A. Fuller Co., 113 S. E. 1st St., for \$750,000 bank and office building, 19-21 N. E. First Ave.; 15 stories and mezzanine with 25-ft. elevator pent house above, first 4 stories Bedford limestone, remainder terra cotta, gold tile roof, 2 high-speed elevators; H. Hastings Mundy, Archt.*

La., Luling—Luling-Hahnville Bank let contract to J. A. Duhe, Hahnville, for 1-story bank building; 28x35 ft., composition roof, concrete vault; Wm. R. Burke, Archt., Balfour Bldg., New Orleans.*

Mo., St. Louis—Security National Bank let contract to Wimmer Contracting Co., 916 Victoria Bldg., to remodel 6-story bank and

office building, 8th and Olive Sts.; concrete, 25x80 ft., hardwood and concrete floors, hollow and interior tile, steel sash and trim, asphalt roof, erect balcony, cost \$75,000; Klipstein & Rathmann, Archts., Chemical Bldg.; sub-contracts not let.*

Okla., Blackwell—Gearhardt Bros. have contract for heating, electric work and plumbing for \$35,000 fireproof office building for Blackwell Oil & Gas Co.; 2 stories, 50x100 ft., concrete and tile floors, concrete foundation, asphalt roof, hollow tile, 1 vault, vault lights, ventilators, steel sash and trim, wire glass; H. H. Mahler, Archt., Tulsa; L. S. Fisher Construction Co. Contr., Tonkawa, de-sires subbids on Pryorbar gypsum tile.*

Tenn., Greeneville—First National Bank, J. E. Hacker, Vice-Pres., let contract to St. Louis Bank Equipment Co., 811 Walnut St., St. Louis, Mo., for 4-story and basement bank and office building; fireproof, burglar-proof vault, safety deposit boxes, banking room finished in Tennessee marble, bronze grill work.*

Tex., Dallas—Allen Investment Co., Western Indemnity Bldg., let contract at \$1,234,500 to Wm. Rice Construction Co., Market St., for office building, Commerce and Ervay Sts.; structure formerly intended for hotel; steel frame and concrete, 18 stories, 100x100 ft., concrete floors, steel and concrete foundation on rock, composition roof, hollow and interior tile, metal doors, mail chutes, vault lights, ventilators, ornamental terra cotta, steel sash and trim, wire glass; heating, electric work, plumbing, elevator, etc., in general contract; The Mid-West Co., Inc., Archt., 402 Southland Life Bldg.*

Tex., Houston—Second National Bank will erect 5 additional stories to 16-story building; cost about \$500,000; American Construction Co., Gulf Bldg., Contr.

Churches

Ark., El Dorado—First Presbyterian Church, J. K. Mahoney, Chmn. Bldg. Comm., let contract for \$115,000 building to Wm. Peterson, El Dorado and Little Rock; brick and stone.*

Fla., Bartow—Christian Church, Rev. F. N. Calvin, Pastor, let contract for \$25,000 building to Keyes & Spitzer.*

Fla., Perry—Methodist Church let contract to Chas. Turner to renovate building.

Fla., Tampa—Zion Evangelical Lutheran Church, Rev. Paul G. Heckel, Pastor, let contract for \$20,000 building, 2901 Highland Ave., to Robt. Mugge Co.

La., Haynesville—First Baptist Church, Rev. W. R. Brown, Pastor, let contract at \$70,000 to F. C. McClanahan, Homer, for brick building; 3 stories, 52x129 ft., pine and concrete floors, concrete foundation, Johns-Manville built-up roof, hollow tile; furnishings, equipment, etc., \$20,000; plans by Mr. McClanahan.*

La., New Orleans—Rayne Memorial M. E. Church, South, Rev. W. L. Duren, Pastor, let contract at \$52,267 to J. A. Petty, Godchaux Bldg., for steel frame and brick Sunday school; 2 stories, 80x98 ft., rift pine floors, reinforced concrete foundation, composition roof, steel sash and trim; conduit wiring to J. E. Hagan, 1739 General Taylor St.; steam heating not let; Emile Weil, Archt., Whitney Annex. Address Contr.*

Miss., Laurel—E. W. Carr, Inc., 413 Gravier St., has contract for Ray Oil Burner equipment for \$169,000 building under construction by Underwood Contracting Corp., Louisiana Bldg., both New Orleans, La., for First Presbyterian Church; Rathbone DeBuys, Archt., Hibernia Bank Bldg., New Orleans; also has contract for Ray Oil Burner equipment for Child's Restaurant, Canal and St. Charles St., New Orleans, and for new and old Library buildings, Laurel, Miss., Under-

wood Contracting Corp., Contr. for latter; will install Nokol automatic oil burner systems in Dr. J. Nix's clinic, 1407 S. Carrollton Ave., New Orleans, and P. F. Martin's residence, Biloxi, Miss.*

Mo., Windsor—Christian Church, Rev. G. S. Birkhead, Pastor, let contract at about \$31,000 to Henry Williams, Holden, for brick and stone building; 2 stories, 40x60 ft. and 70x40 ft., oak and concrete floors, concrete foundation, asphalt or asbestos roof, ventilators, plaster board, steel sash and trim, wire glass; plumbing to G. Gehrig, about \$1000; heating and electric work not let; Chas. A. Smith, Archt., Finance Bldg., Kansas City.*

Okla., Alva—Wesleyan Methodist Church, Rev. A. F. Messer, Pastor, is erecting building.

Tenn., Watertown—First Baptist Church is excavating for \$35,000 building. Address The Pastor.

Tenn., Watertown—Methodist Church is erecting \$15,000 building to replace burned structure. Address The Pastor.

Tex., Fordyce—Roger Watson has contract for heating and plumbing for \$60,000 Methodist Church under construction by J. D. Brock; electric work, Arkansas Light & Power Co.; John P. Almand, Archt., Boyle Bldg., Little Rock. Address Guy T. Patterson for proposals on church furniture.*

Tex., San Antonio—St. Alphonsus Church, Rev. Edw. Molloy, Pastor, 2101 Nebraska Ave. for Mexicans let contract for \$30,000 building, Zarzamora and Vera Cruz Sts., to A. W. Fuessel, 700 Delmar St.; Mission type, brick, tile and concrete.

Tex., Throckmorton—Baptist Church has started work by day labor on \$25,000 building; native stone, 2 stories, 70x90 ft.; Dr. Harvey Beauchamp, Archt., Dallas. Address Rev. L. B. Connell, Pastor.*

City and County

N. C., Winston-Salem—J. A. Haley & Co., 305 W. 5th St., Charlotte, have plumbing contract at \$19,000 for reinforced concrete city hall; Northup & O'Brien, Archts., Starbuck Bldg.; Northeastern Construction Co., Commercial Bank Bldg., Charlotte, contract at \$451,000.*

Okla., Oklahoma City—City, Joe Paterson, Commr. of Public Property, let contract to C. G. Beveridge, 436 W. 28th St., for Exchange Ave. Branch of city library.

Tex., San Antonio—City let contract at \$11,900 to Clemens & Gombert, Boerne, for children's clubhouse, Brackenridge Park; field stone, concrete foundation, frame roof, 1½ stories, 50x80 ft., cement floors, steel sash; Geo. Willis, Archt., Chandler Bldg.*

W. Va., Morgantown—City, E. S. Carter, Sec. to City Mgr., is erecting \$150,000 concrete municipal building, 389 Spruce St.; basement floor poured 2 stories and basement, concrete floors flushed with metalcrete; plumbing to Clyde Brand, \$5964; heating, Morgantown Plumbing Co., \$5944; electric work, National Electric Co.; stone work, C. D. Donato Cut Stone Co., Bedford, Inc., \$10,875; jail work, Van Dorn Iron Works, Cleveland, Ohio, \$9500; Carl Reger, Archt., West Virginia Utilities Bldg.; work by city forces.*

Dwellings

Ala., Mobile—Federation of Women's Clubs is erecting demonstration dwelling, Fairview Ave. and Cloverdale Rd.; Fred J. Crampton, Contr.

Ala., Opelika—Opelika Manufacturing Co. let contracts for 6 additional employees' dwellings.

Ark., Monte Ne—Miss Iris Armstrong, 112½ E. 7th St., Little Rock, let contract to Ed Zimmerman, Rogers, for 6 cottages at Joyzelle Camp, 12x20 ft. each.*

Fla., Jacksonville—Lucien H. Boggs, 2625

Oak St., will erect \$18,000 residence, Oak St., near McDuff St., Ingleside Park; English Colonial type, brick, 10 rooms, baths; Marsh & Saxonby, West Bldg., Archts.; Chas. J. Davis, Jr., Contr., St. James' Bldg.

Fla., Jacksonville—Consolidated Development & Engineering Corp., Raymond C. Turck, Pres., will erect dwellings in connection with development of 510 acres; M. T. Greeley, 111 Cadmus St., Archt.; Geo. W. Simons, Constr. Engr.; Harold Hume, 7614 Riverside Ave., Landscape Engr.; Chester H. Wilson, Constr. Supervisor-Gen. Mgr., Clark Bldg.

Fla., Jacksonville—Francis P. L'Engle, Barnett Bldg., has started work on 12 additional dwellings, vicinity of Lewis and Lime Sts.

Fla., Jacksonville—Fred Thellman, Bisbee Bldg., has started work on 30 bungalows, 24th, 25th and 26th Sts., West Springfield Heights.

Fla., Jacksonville—W. H. Hanson will erect \$11,300 dwelling, Riverside Ave., near Copeland St.; 2 stories, brick veneer; A. L. Clayton, Contr.

Fla., Miami—Paul M. Beacom, Randolph, N. Y., is erecting English Colonial type residence, Beacom Manor.

Fla., Miami—A. M. Beers, 1435 N. W. 1st St., will erect residence, Avenue Astruria, near Columbus Blvd., Coral Gables; garage and servants' quarters; R. Fulton Webb, Archt.; Coral Gables Construction Co., Contr.

Fla., Miami Beach—A. Kotte will erect \$24,000 residence, 17th St. and Meridian Ave.; 2 stories; owner builds.

Fla., Miami—Mr. Raines has started work on residence, Avenue Navarre near Segovia St., Coral Gables; H. Geo. Fink, Archt.

Fla., Miami—A. F. Weber, West Palm Beach, has started work on 2-story residence, S. Greenway Drive, Coral Gables; 3 baths, lavatory, 2-car garage with servants' quarters, bath and shower, stone columns, Moresque red tile roof; H. Geo. Fink, Archt.

Fla., Miami Beach—A. P. Green let contract at \$47,500 to C. R. Donathan for concrete and hollow tile residence; 2 stories, 30x80 ft., oak floors, mission tile roof; concrete foundation completed; Henry La Pointe, Archt., Box 872, Miami.*

Fla., Tampa—B. L. Hamner Building Syndicate, 307 Stovall Nelson Bldg., is erecting 50 dwellings in Tampa and vicinity; 1 and 2 stories, various sizes and styles, concrete foundations, roll roof, hollow tile, plaster board, hardwood floors, cost \$2500 to \$10,000 each; Aladdin Co., Archts., Bay City, Mich.; owner builds. (Lately noted in part).*

Fla., Tampa—Martin L. Hampton, Congress Bldg., Miami, is architect for dwellings to be erected on Davis Islands by D. P. Davis Properties, Wurner Bldg., Island Construction Co. and Watson Corp.*

Fla., Valparaiso—Jas. E. Plew, Owner, Valparaiso Inn, and others will erect 20 dwellings, Choctawhatchee Bay; contracts let for 6; Walker D. Willis, Archt., Pensacola.

Ga., Grantville—Grantville Hosiery Mills let contract to LaGrange Lumber & Supply Co., LaGrange, for 30 frame shingle dwellings; 3 and 4 rooms; total cost \$36,000.

Ky., Louisville—City Mill & Lumber Co., 901 Fehr Ave., is erecting several dwellings; frame and brick, 1 story, concrete foundations, cost \$25,000; General Construction Co., Contr., 229 5th St.; low-pressure steam heating to H. Hetherton & Co.; plumbing, Hermann Bros.; electric work not let.*

La., New Orleans—Lionel J. Gottchalk and Conservative Homestead Assn., will erect \$12,000 stucco duplex, Fern and Maple Sts.; Denis & Handy, Contrs.

La., New Orleans—Morgan D. E. Hite, Architect Whitney Bldg., let contract to Jensen Bros., 3021 Robert St., for duplex dwelling, Milan and Saratoga St. and dwelling, Cadiz

and Prytania Sts.; stucco and hollow tile, tile roofs and baths, steam heat, garages.

Md., Baltimore—Conrad Dittmar, 2030 E. Preston St., will erect \$10,500 residence and garage, S. side Lake Ave., east of Harford Ave.; 1½ stories, 28x39 ft. and 20x20 ft., slate roofs, hot-water heat; P. T. Bond, Archt.; Carl Gonnen, Contr.*

Md., Baltimore—Rose Bud Building Co. will erect 6 brick dwellings, 3301-11 Morley Ave.; 2 stories, 16x32 ft., steam heat; total cost \$12,000; Louis Pencus, Archt.; owner builds.

Md., Baltimore—Suburban Construction Co., Pimlico Rd. and Summit, will erect 9 brick dwellings, W. side Pimlico Rd., N. of Summit Ave.; 2 stories, 18x32 ft., steam heat; total cost \$20,000; Harry Bart, 4130 Old Pimlico Rd., Archt.; owner builds.*

Md., Baltimore—Westphal & Schoenhals, Munsey Bldg., will erect 59 brick dwellings, both sides 5200 and 5300 blocks Queensbury Ave.; 2 stories, 21x34 ft. and 22x34 ft., slag roofs, hot-water heat; total cost about \$175,000; J. F. Hirt, Archt., 829 Luzerne Ave.; owner builds.

Md., Baltimore—Jas. M. Adams, 626 Woodbine Ave., will erect 5 frame dwellings, N. side Ravenswood Ave., E. of Craig Ave.; 1½ stories, 24x28 ft., slate roofs, furnace heat; total cost \$18,000; plans and construction by owner.

Md., Baltimore—Chas. M. Athey, 500 S. Hanover St., will erect \$19,000 residence, N. W. side Millbrook Rd., N. E. of Charles Street Ave.; 2½ stories, 56x60 ft., frame, slate roof, steam heat; Edw. L. Palmer, Jr., Archt., 513 N. Charles St.; John Hiltz & Sons Co., Contr., 343 St. Paul Place.

Md., Baltimore—M. Filmore Carter, Frederick Ave., will erect 24 brick dwellings, N. W. and S. W. cor. Garrison and Morton Aves.; 2 stories, 17x32 ft., hot air heat; total cost \$30,000; F. E. Beall, Archt., 306 St. Paul St.; owner builds.*

Md., Baltimore—David W. Glass, 2300 Thirteenth St., will erect 10 brick dwellings, E. side Wendover Rd., S. of Edward Ave.; 2 stories, 17x46 ft., hot water heat; total cost \$35,000; M. J. Ruark, Archt., 4600 Springdale Ave.; owner builds.*

Md., Baltimore—David Kleiman, 752 W. Baltimore St., will erect 24 brick dwellings, E. side Brunswick Ave., S. of Wilkins Ave.; 2 stories, 15x40 ft., slag roofs, furnace heat; total cost \$48,000; S. Russell, Archt., 11 E. Lexington St.; owner builds.

Md., Baltimore—G. E. Markley, Belair Rd. and Idaho Ave., will erect 5 frame dwellings, N. E. side Fairmount Ave., S. of Belair Rd.; 1½ stories, 24x28 ft., shingle roofs, hot water heat; total cost \$17,500; B. R. Sale, Contr.

Md., Baltimore—C. C. Rittenhouse, 110 Spence St., Morrell Park, let contract to E. H. Kelbaugh, Harmon, for \$25,000 hollow tile and stucco residence, Ten Hills; 2½ stories, 32x45 ft., hardwood and concrete floors, stone foundation, slate roof, interior tile, metal doors, ventilators; John R. Forsythe, Archt., 16 E. Lexington St.*

Md., Baltimore—Roanna Development Co. will erect 9 frame dwellings, S. W. side Duvall Ave., near Mt. Holly Ave.; 2 stories, 26x32 ft., steam heat; total cost \$40,500; C. T. McClure, Archt., 5019 Park Heights Ave.; J. E. Richards, Contr.

Md., Baltimore—Fulton E. Yewell, Inc., 562 University Pkwy., will erect about 80 dwellings, Garrison and Oakford Aves.; 2 stories, 16x47 ft., brick, steam heat; John R. Forsythe, Archt.; owner builds.*

Md., Baltimore—Jas. Keelty, 3600 Edmondson Ave., will erect 20 brick dwellings, 700 block Grantley St.; 20 in 700 block Linnard St., and 20 west side Tremont St., north of Frederick Ave.; total cost \$180,000; F. E. Beall, Archt., 306 St. Paul St.; owner builds.

Miss., Vicksburg—Mrs. Marion Metzger is

laying foundation of \$15,000 residence; brick, frame and stucco, 1 story and basement, 45x64 ft., hardwood and concrete floors, concrete and brick foundation, tile roof, interior tile, plaster board, mail chute, ventilators, steel sash and trim, wire glass; M. J. Donovan, Archt.; J. R. Laughlin, masonry contract; W. C. Smart, constr. contract; hot water heating and plumbing, Enterprise Plumbing & Roofing Co.; electric work, J. M. Fried; painting, McKlure & Kahn; \$1000, hardware, etc., Wright Brothers Co., \$650.

Miss., Vicksburg—Mrs. Lester Rose is laying foundation of \$15,000 residence; brick, frame and stucco, 1 story and basement, 45x64 ft., hardwood and concrete floors, concrete and brick foundation, tile roof, interior tile, plaster board, mail chute, ventilators, steel sash and trim, wire glass; M. J. Donovan, Archt.; J. R. Laughlin, masonry contract; W. C. Smart, constr. contract; hot water heating and plumbing, Enterprise Plumbing & Roofing Co.; electric work, J. M. Fried; painting, McKlure & Kahn, \$1000; hardware, etc., Wright Brothers Co., \$650.

Miss., Vicksburg—Mrs. Norma Edwards is laying foundation of \$12,000 brick and concrete residence; 1 story and basement, 37x76 ft., tile, concrete and hardwood floors, concrete foundation, tile and asbestos roof, interior tile, plaster board, mail chute, ventilators, steel sash and trim, wire glass; M. J. Donovan, Archt.; J. R. Laughlin, masonry contract; W. C. Smart, constr. contract; warm air heating and plumbing, Enterprise Plumbing & Roofing Co.; electric work, R. L. Jacobs; hardware, \$350, Wright Brothers Co.; painting not let.

Mo., Cape Girardeau—Dr. N. F. Chostner is erecting 3 brick bungalows, Whitener St. and Boulevard; 5 rooms and bath, hardwood floors; sell at about \$4500 each.

N. C., Biltmore—Sayles Finishing Plants, Inc., let contract for 75 dwellings to W. M. Welch, Inc.; frame, 3, 4, and 5 rooms; total cost \$125,000; J. E. Sirrine & Co., Archts.; plumbing, Edens & Moon, all Greenville, S. C.; electric work in general contract.*

N. C., Bladenboro—L. C. Bridger, Cashr., Bank of Bladenboro, is erecting \$15,000 bungalow. (See Machinery Wanted—Building Material).

N. C., Charlotte—Cameron Morrison let contract to Goode Construction Co., 4 W. 3d St., for farmers' and gardeners' dwellings on estate; personal residence later; Walker & Hunter, Archts., 5 W. 10th St.; John Nolen, Landscape Archt., Cambridge, Mass.*

N. C., Charlotte—Miss Mattie Orr will erect \$18,000 duplex residence, 2000 block E. Seventh St.; 12 rooms, brick veneer; F. L. Bonfoey, Archt., 6 N. Tryon St.; O. N. Payne, Contr., 219½ W. Trade St.

N. C., Greensboro—Sigmund Sternberger, 712 Summit Ave., let contract for \$65,000 residence, 712 Summit Ave., to W. H. Sadler; 12 rooms, brick, limestone trim; Harry Barton, Jefferson Bldg., Archt.

N. C., Greensboro—R. O. Browning will erect Colonial residence, W. Davis St. Extension; 2 stories, brick veneer; contract let.

N. C., Shelby—Will M. Roberts has started work on Dutch Colonial-type residence; 1½ stories, stucco; owner builds.

N. C., Shelby—Maurice Weathers is erecting stucco finish residence; 7 rooms; Will M. Roberts, Contr.

N. C., Shelby—J. C. Wood, care D. A. Beam Motor Co., will erect residence, Cleveland Springs Rd.; Will M. Roberts, Contr.; work started.

Okl., Tulsa—Waldo T. Freeman, care Freeman & Freeman, is erecting 6 dwellings, 13th Place and Lewis Ave., Freeman's subdivision, and 4, 19th and Yorktown Sts.

S. C., Spartanburg—D. D. Little let contract to Fiske-Carter Construction Co., for

light-colored brick residence, Connecticut Ave.; 80-ft. frontage, stone foundation, slate roof, Indiana granite for steps, terrace, trim, etc., white oak floors over pine, 3 baths, Turkish bath cabinet, shower, electric refrigerating plant, indirect lighting, inter-communicating telephone system, cedar-lined closets, conservatory, sun parlor; J. E. Sirrine & Co., 309 S. Main St., Archts.-Engrs., Greenville.*

S. C., Whitmire—Aragon-Baldwin Mills let contract at \$79,000 to J. Archie Willis & Co., Norwood National Bank Bldg., for 50 tenement houses; frame, 1 story, 4 rooms and bath, pine floors, brick foundations, cedar shingles roofs; electric wiring and plumbing in general contract J. E. Sirrine & Co., Archts., both Greenville.*

Tenn., Knoxville—A. M. Hill Co., 325 W. Clinch St., has started work on 3 frame dwellings, Burlington, Park City and Lonsdale; total cost \$13,000.

Tenn., Memphis—Frost & Earles, Goodwyn Institute Bldg., let contracts for 9 brick bungalows, Spottsworth Ave., Buntyn-Normal vicinity; red gum interiors, hot-water heat.

Tenn., Memphis—Clarence W. Griffith, 306 S. Cleveland St., has started work on English Gothic type residence, East Drive, Hein Park; brick, shingle tile roof; J. Fraser Smith and H. M. Burnham, Archts.; R. F. Howell, 2652 Harvard St., Contr.

Tex., Beaumont—Beaumont Building Material Co., Pine and Magazine Sts., will erect Ideal model dwelling, Broadway and Ninth St.; cost \$20,000; Livesay & Wiedemann, Architects, 447 V. Ness Bldg.; F. A. Fahey, Contr.

Tex., Cameron—Oxsheer Smith let contract to Russell Brown Co., Houston, for \$10,000 residence; face brick veneer, 2 stories and basement, 44x67 ft., tile roof, oak floors, 2 tile baths, hot-air heat; plans by Contr.; under way.*

Tex., Dallas—Ballard Burgher, 4312 Avondale St., let contract for \$25,000 residence, 4105 Turtle Creek Blvd., to Childs-Lasell Construction Co.; 2 stories, hollow tile and stucco, 10 rooms; Flint & Broad, Archts., Melba Bldg.*

Tex., Dallas—Mrs. Geo. Rhymer, 2609 McKinney Ave., is erecting \$10,000 duplex, 2514 Reagan St.; brick veneer.

Tex., Morten—John Alexander is erecting residence, Cummer and George St.; M. D. Biggs, Contr.

Tex., Morten—W. C. Hamm, Sr., is erecting residence, Moody Ave.

Tex., Palestine—Jack Hockridge has started work on residence, N. John St.

Tex., San Antonio—Moeller & Weilbacher have contract at \$19,037 for Bellinger residence, New Braunfels Ave. near Nebraska St.; 2 stories, concrete, hollow tile and stucco; conduit wiring to Kirkwood & Wharton, 231 W. Commerce St., \$673; plumbing, Arnold Bros., \$1977; heating, R. G. Thomas, \$1974; Beverly W. Spillman, Archt., Alamo Bank Bldg.*

Tex., San Marcos—Dr. C. H. Aiken, Prop. Paul C. Moore Jewelry Co., let contract to M. G. Talley for \$12,000 residence; brick veneer, 1-story and basement, oak floors, composition roof, hot-air heat; Roy L. Thomas, Archt., Littlefield Bldg., Austin; electric work to Robt. Collier; Plumbing, Fred Lange; heating let.*

W. Va., Fairmont—West End Improvement Co., Harry S. Price, Sales Mgr., plans to erect about 100 dwellings; contract for 10. Sterling Heights, let to John M. Kisner at about \$55,000.

Tex., San Antonio—O. A. Hudson, 421 Belknap Place, let contract for \$10,000 residence, Summit Ave., near San Pedro St., to G. W. Mitchell; 2 stories, frame; Adams & Adams, Archts., Gibbs Bldg.*

W. Va., Huntington—Huntington Engineering Co., Inc., First National Bank Bldg., will

if the Manufacturers Record is mentioned.

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start work March 20 on 26 dwellings, Madison Ave.; to sell for \$11,000 to \$15,000 each; hollow and interior tile, hardwood floors, steel sash in basements; items to be purchased include cement, millwork, roofing, hot-air furnaces, plumbing fixtures.*

Va., Richmond—Mrs. Mary G. Wortham, 831 W. Grace St., will erect \$50,000 residence, 2301 Monument Ave.; brick, 3 stories; 2-story garage; Wm. L. Bottomley, Archt., 112 E. 55th St., New York; Claiborne & Taylor, Contr., Atlantic Life Bldg.

W. Va., Wheeling—Mrs. Alex Durst, 749 Main St., will erect \$15,000 brick and tile addition to residence, 91 12th St.; A. L. Bauer, Contr., 175 16th St.

Government and State

Va., Petersburg—H. A. Hawkins has contract for heating work in City armory for Virginia National Guard; electric work, Sycamore Electric Co.; plumbing, Branch & Andrews; Coopee Lai, Archt., 14 Law Bldg.; E. L. Bass, Room 14, Law Bldg., contract at \$42,000.*

Hospitals, Sanitariums, Etc.

N. C., Fayetteville—Dr. J. F. Highsmith let contract to James Fanning, Jefferson Bldg., for \$500,000 Highsmith Hospital, Hay St. and Bradford Ave., Haymount; fireproof, brick and stone, 5 stories, cross shape, red tile solarium, elevators, about 100 rooms, provision for additional stories to wings; C. C. Hartmann, Archt., Jefferson Bldg., both Greensboro.

Tex., Denison—Sons and Daughters of Mer., Colored, let contract for \$20,000 hospital.

Va., Lynchburg—Virginia Baptist Hospital, O. B. Barker, Pres., Board of Trustees, let contract to W. T. Jones for 3-story and basement nurses' home; slate roof, accommodate 50 to 60; Stanhope S. Johnson, Archt., Peoples National Bank Bldg.; also plans to erect 3-story ward building.*

Tex., El Paso—Masonic Hospital let contract to H. T. Ponsford & Sons, 914 E. Missouri St., for \$32,500 nurses' home and school of nursing; furnishings, about \$5000; lecture room on first floor, reception room, etc., on second, dormitory on third.

Hotels and Apartments

Ark., Eureka Springs—A. O. Clark, Archt., Rogers, preparing plans for extensive improvements to Crescent Hotel, recently purchased by C. A. Fuller, A. G. Ingalls and others; work being supervised by Mr. Fuller.*

Fla., La Belle—M. Wilson, New York, leased Royal Palm Hotel, making improvements and renovations.

Fla., Miami Beach—Harry Leavitt, 127 N. E. 5th St., let contract to O'Neill & Orr for \$74,000 hotel building, 401 Fourth St.*

Fla., Miami—Wiley George has plans by E. A. Peas, let contract to L. A. Pandar, for family apartment building, 1660 N. W. 1st Ave.; 3 rooms each.

Fla., St. Petersburg—Harry Rigby contracted for \$30,000 brick, 2 stories to business block, Sixth St. and Lemon Ave.; for hotel with 65 rooms, each with bath.

Fla., Sarasota—G. W. Durden let contract for garage apartment building, rear of Fourth St. residence; plans to erect 18 or 20-room, stucco apartment building.

Fla., St. Petersburg—G. A. Miller, Pettyway Bldg., Tampa, Contr. for \$2,000,000 Vinoy Park Hotel, let contract to Dann-Gerow Co., for all cement to be used and also about 1000 tons of steel.*

Ga., Macon—D. Lowenstein, Contr., Atlanta, will erect \$90,000, 16-apartment building, Georgia Ave. between Orange and Bond Sts.; 2 stories, 170x70 ft., to be known as Georgian Terrace; will be leased by Murphy-Taylor & Ellis Co., 470 Cherry St.

La., New Orleans—Emile Weil, Archt., Whitney Bldg., let contract to George J. Glover Co., Inc., 1301 Soniat, for alterations to St. Charles Hotel, St. Charles and Gravier Sts.; \$500,000; consist of complete remodeling of present building, enlarging lobby, new electric elevators, etc.*

Mo., Springfield—John T. Woodruff, R. F. D. No. 9, let contract to Caldwell & Son Construction Co., Indianapolis, Ind., and Springfield, for \$250,000, English style tourist hotel, St. Louis St.; two other units costing \$250,000 will be erected later; will contain apartments, to be known as Kentwood Arms.*

Mo., St. Louis—Dougherty & Sheehan, Eighth and Chestnut Sts., will erect \$100,000, 140x53 ft., brick, 3-story store and tenement building, 4201-5 Lindell and 307-19 Whittier Sts.; owner is Builder and Archt.

Mo., St. Louis—G. Hentz, 2047 O'Bear St., let contract to W. Meyer & Sons, 2108 O'Bear St., for \$10,000, brick, 27x52 ft. tenement, 4601 Carrie St.; composition roof, hot water heat.

Mo., St. Louis—F. Schmitt Realty & Investment Co., 5912 Enright St., will erect \$12,000, brick, 2-story, 68x90 ft. shop, 650 Rosedale St.; composition roof, steam heat; owner is Builder and Archt.

Mo., St. Louis—H. W. Simon, 4569 Athalone St., will erect three 2-story, brick, 33x47 ft. tenements, 4102-10 Red Bud St.; \$27,000, hot air heat, composition roofs; H. C. Simon, Builder and Archt., 4446 Floriss Place.

Mo., St. Louis—E. O. Wells, 207-8 Fidelity Bldg., will erect two 2-story, brick, 34x46 ft., brick tenements, 3935-9 Miami St.; \$24,000, pitch and gravel roofs, hot air heat; J. J. Gilbane, Archt., 207-8 Fidelity Bldg.

N. C., Asheville—E. B. Wooten, 5th Ave. W. Hendersonville, L. E. Jackson, E. E. Reed, David L. Strain and others let contract to Powers Engineering & Construction Co. for \$430,000, 8-story, fireproof, 125-room hotel, Woodfin and Market Sts.; private bath for each room; on ground floor will be lobby, dining room and drug store, brick and limestone construction, 2 Otis elevators.

N. C., Charlotte—J. A. Clinard, 203 N. College St., let contract to Southeastern Construction Co., 129 Brevard Court, for \$13,000, 2-story, brick veneer, 38x54 ft. apartment building, 907 Carson St.

N. C., Greensboro—C. C. Pierce, Norfolk, Va., will erect \$90,000, 4-story apartment house, N. Elm St., between Bessemer Ave. and Second St.; 20 to 24 apartments of 4 rooms each; owner builds.*

Tenn., Memphis—J. L. White, 1949 Walker St., will erect \$22,000, brick veneer, 16-apartment building, 191-3-5-7 Auburndale St.; garage \$1000, heat \$3000; W. E. White, Contr., 1800 Poplar St.

Tex., Dallas—A. Z. Barnes will erect \$20,000, 24-room, 8-efficiency apartment building, 2120 N. Haskell St.; C. F. Schultz, Contr.

Tex., Dallas—Rev. A. L. Clinkenbeard let contract to George Kean, Slaughter Bldg., for \$10,000, 2-story, 14-room, brick veneer, 3-apartment building, 4218-22 Cole Ave.*

Tex., Houston—E. F. Williams expending \$75,000 for conversion of Magnolia Creamery building, Franklin Ave. into hotel.

Va., Richmond—Murphy's Hotel, Inc., James T. Disney, Pres., will erect addition in future; now remodeling first floor mezzanine and basement as follows: Present lobby will be remodeled into 5 stores, 17x60 ft., fronting Broad St. and through into lobby; dining room and kitchen converted into lobby, enlarge basement housing cafeteria; Clinton & Russell, Archts., Richmond and 32 Nassau St., New York; Wise Granite & Construction Co., Contrs., American National Bank Bldg.

Miscellaneous

Ala., Florence—Inn—F. C. Leonard, Waterbury, Conn., let contract for \$50,000 inn; Glenn Phelps, Archt., New York, will superintend construction.

Tenn., Chattanooga—Conservatory—Stewart Construction Co., Frqr. Bldg., has contract at \$22,000 for 2-story, brick and hollow tile addition to Cadek Conservatory, Walnut and Fifth Sts.; reception hall and studios on ground floor, apartment of Mr. Cadek and studios above.

Railway Stations, Sheds, Etc.

Fla., Titusville—Florida East Coast Rwy. Co., H. N. Rodenbaugh, Gen. Mgr., has plans by Henry McCane, both St. Augustine, let contract to G. W. Hessler, Inc., Jacksonville, for 1-story, Spanish Mission style, stucco finish passenger station; 28x85 ft., concrete foundation, brick walls, wood block, tile and concrete floors, built-up roof, metal ceilings.*

N. C., Winston-Salem—Augusta Roofing & Metal Works, 529 Broad St., Augusta, Ga., has sub-contract for Barrett specification roof and all metal work at \$7100 for \$800,000 union passenger station, for which Northeastern Construction Co., 101 Park Ave., New York, and Charlotte, has general contract.*

Schools

Ala., Mobile—Board of School Commissioners, S. S. Murphy, Supt., let following contracts for High School equipment: Southern Seating Co., 210 Decatur St.; Jas. H. Jones, Woodward, Wight & Co., 451 Howard Ave., all New Orleans; Adam Glass Co., McGowan Lyons Hardware Co., Water St.; Turner Supply Co., N. Commerce St., all Mobile; Leonard Peterson Co., 1222 Fulton Ave., Chicago, Ill.; E. H. Sheldon & Co., Muskegon, Mich.; Hamilton Manufacturing Co., Two Rivers, Wis.; American Woodworking Machinery Co., Rochester, N. Y.; J. A. Fay & Egan Co., 34th and Robertson Ave., Cincinnati, Ohio, and Barnhardt Bros. & Spindler, 401 N. 3rd St., St. Louis.

Ark., Searcy—Galloway College, J. M. Williams, Pres., started work on \$75,000 Woman's Science Building, to house classrooms, science laboratories and home economics department; red brick with white trim, 3 stories; Henry C. Hibbs, Archt., Nashville, Tenn.

Ga., Atlanta—Georgia School of Technology has permit for \$100,000 addition to reinforced concrete stadium, North Ave. and Techwood Drive; A. K. Adams & Co., Contrs., Bona Allen Bldg.

Ga., Granite Hill—Tenth District Agricultural School, Luther Elrod, Principal, let contract to J. W. McMillan, Milledgeville, for first section of dormitory.*

Ky., Pikeville—Pikeville College, Rev. Jas. F. Record, Pres., let contract to W. T. Huffman for \$100,000, 3-story and basement, brick building to house High School and College departments.*

Md., Baltimore—Board of Awards, Mayor Howard W. Jackson, Pres., let contract to J. L. Robinson Construction Co., 1130 W. Fayette St., at \$574,586, for elementary school, First St., Fair Ave. and Hudson St., to be known as Canton School; 200x300 ft., 3 stories, brick and concrete, wood and concrete floors, vapor heating; Wyatt & Nolting, Archts., Keyser Bldg.

Md., Silver Spring—Montgomery County Board of Education, Dr. Geo. E. Lewis, Supt. of Buildings, Rockville, let contract to C. H. Brooks, Gaithersburg, for High School building between Takoma Park and Silver Spring; cost, including plumbing and electric wiring, \$45,237; 1 story, 6 classrooms, auditorium and gymnasium combined, 2 locker rooms, library and teachers' room.

Miss., Vicksburg—Mayor and Board of

Aldermen let contract to Mississippi School Supply Co., Jackson, for seats for Speed St. School.*

Mo., Springfield—School Board, J. W. Faison, Chmn., let contract to M. E. Gillioz Construction Co., at \$78,000, for completion of Pipkin Junior High School.*

N. C., Hamlet—School Board, M. J. Eisenhart, Chmn., let contract to Pickens & Lamplly, Aberdeen, at \$21,272, for 6-classroom and auditorium grammar school building; S. Ralph Fetner, Archt.*

N. C., Hendersonville—Trustees of Hendersonville Graded School District, H. H. Ewbank, let contract to J. J. Stroud, Southern Pines, at \$192,300, for High School building; exterior walls, brick masonry, reinforced concrete floors and roof slab, 38 classrooms and auditorium; J. L. Powers, Bennettsville, S. C., heating, plumbing and lighting at \$45,841; Earl G. Stillwell, Archt.*

Okla., Red Fork—Board of Education let contract to Tom Dahlstrom, Tulsa, for 2-story, 92x140 ft., \$85,000, brick and stone High School building; brick foundation, asphalt roof, yellow pine, maple and cement floors, yellow pine finish; W. A. Thompson, Okmulgee, heating and plumbing; A. J. Love & Co., Lynch Bldg., Archts., Tulsa.*

S. C., Columbia—T. W. Tompkins has subcontract for heating and plumbing in Negro Industrial Training School, for which Gustafson Construction Co. has general contract.*

Tex., Alice—Alice Independent School District Board of Trustees opened bids for erection of school building and alterations; following contracts let: Bock Construction Co., general at \$59,877; Jud & Ormond, 704 N. St. Mary's St., plumbing at \$2954; Kirkwood & Wharton, 231 W. Commerce St., electric wiring at \$643; Eagle Sheet Metal Works, warm-air heating at \$4400; Paul G. Silber & Co., Archts., 331 Bedell Bldg.; all San Francisco.*

Tex., Cameron—Board of Education, Judge Kidd, Pres., opened bids for 2-story and part basement, stone, steel and reinforced concrete Junior High School and 2-story, brick colored school; contracts let as follows: Christy-Dolph Construction Co., Dallas, \$115,953; plumbing, Cameron Plumbing Co., Cameron, \$6682; electric, Graham & Collins, San Antonio, \$2431; heating, Kinnison Brothers, Dallas, \$9067; DeWitt & Lemmon, Archts., S. W. Life Bldg., Dallas.*

Tex., El Paso—School Board, J. H. McBroom, Pres., let contract to Ramey Brothers at \$109,600 for Vocational School, Rio Grande and Oregon Sts.; Spanish type, maple and cement floors, concrete foundation, clay tile and composition roof, hollow tile, interior tile, steel sash and trim; plumbing and drainage, F. H. Dougherty, \$5760; heating, Elliott Engineering Co., \$9977; wiring and electrical work, Independent Electric Co., \$4200; Troost & Troost, Archts., Two Republics Bldg.; contract for Woodlawn School let to George Beaudett; \$32,000, 8 rooms, brick; heating, F. H. Dougherty; plumbing, A. J. Carpenter; G. E. Frazier and H. M. Beutell, Asso. Archts., Caples Bldg.*

Tex., Gainesville—Austin Brothers, Dallas, has contract for stadium to be erected on athletic field of Newsome Dougherty Memorial High School; baseball grandstand to seat 384 persons and football stand to seat 960; structural steel with concrete footings.

W. Va., Fairmont—State Board of Control, James S. Lakin, Pres., Charleston, let contract to J. L. Crouse, Amer. Bk. Bldg., Greensboro, for \$63,000 wing to main building of Fairmont State Normal School; 2 stories, 60x64 ft.; R. A. Gillis, Archt., Fleming Bldg.*

W. Va., Parkersburg—Central State Construction Co., 1107 4th Ave., Huntington,

has contract for \$180,000 Junior High School building. Address School Board.

Stores

Fla., Fort Lauderdale—Palm Court Corp., M. A. Hortt, Pres., let contract to George W. Young, at cost plus, for \$60,000, 2-story, 100 by 130 ft. store and office building, Bricknell Ave. and Third St.; composition roof, pine floors, concrete foundation, hollow tile, interior tile; Francis Afrew, Archt.*

Fla., Sarasota—Archibald Furniture Co., care I. G. Archibald, let contract to Ricketts & Haworth, at \$50,000, for 4-story, 56x90 ft., concrete and tile, furniture store building; wood floors, concrete foundation, built-up roof; all materials purchased; C. Frank Gallaher, Archt., Tampa.*

Fla., Tampa—D. S. Fisher, Buffalo-Florida Ave., let contract to E. H. Foxworth at \$45,000 for 1-story, 214x80 ft., Georgia clay brick and stucco store and arcade building, Florida and Buffalo Aves.; concrete floors and foundation, hollow tile, wire glass, built-up roof; F. D. Parslow, Archt.; R. B. Gambier, Asso. Archt.

Fla., Winter Haven—H. W. Fraser let contract to Seymour-Craig Co. for 50x108 ft., hollow tile and brick, 2-story business block, for Sinclair Hardware & Furniture Co.; plate glass front, magnesite with tile cornice decorations.*

La., New Orleans—Herman Perloff, 1423 Canal St., let contract to Haffner & Taylor for repairs and alterations, 421-5 Frenchman St.; \$22,837.

Miss., Gulfport—W. A. Cuevas, Pass Christian, has plans by Shaw & Woleben, for \$35,000, 50x160 ft., 2-story and mezzanine furniture store; brick masonry walls, steel framing interior, built-up roof, wood floors, hand power freight elevator with plat for 5x7 ft.; soon award contract to Chevalley & Fursdon.*

Miss., Laurel—Yates Building, Inc., care T. W. Yates, will erect \$25,000, 100x80 ft., 2-story store buildings, Oak St.; asphalt roof, concrete ground floor and foundation, heated by steam heat from oil burner, electric lights, electric elevator; Sam Lindsey, Archt. and Builder.*

Mo., St. Louis—G. A. Sanguinet, 944 Goodfellow St., will erect \$10,000, 2-story, brick, 37x50 ft. store and tenement, 5420-2 St. Louis St.; gravel roof, hot air heat; H. W. Guth, Archt., 2647 Oregon St.; owner builds.

N. C., Charlotte—Elizabeth Realty Co., Chase Brenizer, Pres., let contract to McDevitt-Fleming Co., N. Tryon St., for \$60,000, brick with limestone trimming, 2-story building, S. Tryon St.; 5 stores, each 18x100 ft., 25 bedrooms above; storage rooms and warehouses to be built in rear; Charles C. Hook, Archt., 338 S. Church St.*

N. C., Hickory—F. W. Woolworth & Co., Woolworth Bldg., New York, let heating and plumbing contract to James C. Shuford Co. and lighting and wiring to L. K. Ratchford in connection with remodeling building on Union Square; work by owners.

Okla., Idabel—A. E. Neville started work on 25x90 ft., brick and concrete business building, Central Ave. and Adams St.

Okla., Oklahoma City—Harbour-Longmire Furniture Co., J. F. Harbour, Pres., 311-13 W. Main St., let contract to Charles M. Dunning Constr. Co., 1139 W. 8th St., for 8-story and basement, steel and concrete, 75x140-ft. store building, 427-9 W. Main St.; cost from \$50,000 to \$300,000; concrete floors and foundation, hollow tile, metal doors, vaults, concrete roofing, ventilators, rolling partitions, steel sash and trim, wire glass; Hawk & Parr, Archts., Cotton Exchange Bldg.; V. V. Long & Co., Engrs., Colcord Bldg.*

Okla., Tulsa—C. A. Robertson, care C. D. Doggesshall, 521 Wright Bldg., started work on \$40,000, semi-fireproof, face brick, cut

stone trim, 45x100 ft., 3-story store and apartment building; tar and gravel roof, steam heat, yellow pine finish, oak and concrete floors, plate glass, steel beams and lintels, reinforced concrete floors and foundation, iron stairs, metal store fronts, roof ventilators, metal ceilings, steel sash; Lawrence E. Blue, Archt., 209 E. 18th St.; owner builds by day labor.

S. C., Clemson—Sloan Brothers let contract to J. R. Owens, Greenville, for \$30,000, 62x90 ft. store building, Calhoun road and State Highway No. 2; 16-ft arcade through center, filling station and auto accessory shop in front; plans by Prof. R. E. Lee, Agricultural Division of Clemson College.

S. C., Denmark—Redman Hardwick erecting fireproof, brick department store building, Palmetto Ave.

Tenn., Bristol—James M. Barker, Jr., let contract to Lowe Construction Co., for \$23,000, brick, 1-story building over Beaver Creek; 3 stores on State St. and 1 on Seventh St.; reinforced concrete foundation.

Tenn., Memphis—Pendergrast Estate, Joe C. Pendergrast, agent, 115 Monroe St., let contract to L. E. Joyner, 63 S. 3rd St., for 11-story building, 540-50 S. Main and 107-15 Calhoun St.; Hanker & Cairns, Archts., Seimler Bldg.*

Tenn., Memphis—E. L. Harrison, Archt., Fidelity Bank Bldg., let contract to E. Ivarson son for new front to building at 105-9 Beale Ave.

Tex., Jordanton—Bernard Martin let contract to J. C. Arnold, San Antonio, for hollow tile, fireproof store building.

Tex., Dallas—Rogers-O'Rourke Construction Co., Kirby Bldg., has contract for \$60,000, 4-story brick and concrete building, 1320 Commerce St., to replace structure recently burned; 25x200 ft.

Tex., Lubbock—O. V. Bagwell let contract to C. H. Elliott for building, Broadway and Avenue G; filling station at front and 3 store rooms at rear.

Tex., Palatka—E. R. Conway let contract to L. S. Johnson, Jr., at \$9000, for 2-story, 50x56 ft., tile and rock store and apartment building; concrete floors and foundation, built-up roof, hollow tile, metal ceilings, ventilators; Electric Service Co., electric wiring; Rankin & Dreenen, plumbing; Builder is architect.*

Va., Richmond—Hofheimer Economy Shoe Store, 300 E. Broad St., let contract to John T. Wilson Co., Inc., for 3-story and basement building, 417 E. Broad St.*

Theaters

Fla., Miami—Paramount Enterprises, Inc., Hippodrome Bldg., composed of Harry A. Leach & Sons and Famous Players-Lasky Corp., New York, let contract to George A. Fuller Co., New York and Miami, for \$1,250,000 theater and office building; office building will front 100 ft. on Flagler St. 17 ft. along N. E. Second Ave.; entrance from Flagler St.; 3 stories, 100x1 ft. and concrete faced with brick. n and lobby, seat 2250 persons, Italian Renaissance style; John Eberson, Archt., 212 E. Superior St., Chicago, Ill.*

La., New Orleans—G. E. and E. E. Reimann, Weiss Bldg., Contrs. for 2-story, brick motion picture theater, Murat and Tulane Ave., wants sub-contract bids on plumbing, heating and sprinkler system.

Warehouses

Ga., Rome—Georgia-Alabama Warehouse Co., erecting \$10,000 addition.

Ga., Savannah—Central of Georgia Rwy. Co., C. K. Lawrence, Ch. Engr., let contract to Artley Co., 504 E. Bay St., for \$40,000, 1-story, fireproof, brick and concrete storehouse.

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Md., Baltimore—Morris Wolk and Isadore Olson, 824 W. Pratt St., let contract to Louis Ulman & Co., 419 Aisquith St., at \$18,000, for 2-story, 50x98 ft., concrete, steel and brick warehouse, 782-4 W. Pratt St.; slab roof, pine floors, metal doors, wire glass; Detrich Brothers, E. Pleasant St., steel sash and beams; desire sub-contract bids on wire glass, painting, plumbing, electric wiring and fixtures, 2000-lb. capacity electric freight elevator; address Contrs.; Stanislaus Russell, Archt. 11 E. Lexington St.*

Tenn., Memphis—Central Mosaic & Tile Co., 15 S. Fourth St., let contract to E. J. Pearson, Fidelity Bank Bldg., for \$10,000 brick warehouse, 248x250 N. Front St.

Tex., Dallas—Flippen Auto Co. let contract to Inge Construction Co., 504 Swiss, for \$39,000, 3-story warehouse and office building, 1721 N. Harwood St.

Tex., Houston—Continental Supply Co., 1501 Locust St., St. Louis, Mo., local office P. O. Box 1741, let contract to Don Hall Construction Co., Cotton Exchange, at \$49,500, for 3-story, 40x200 ft., reinforced concrete, hollow tile, brick and metal lath office, show room and warehouse building, 6100 block Harrisburg Blvd.; concrete floors and foun-

tion, concrete with tar and gravel roof, metal ceilings, steel sash and trim; general contract includes heating, electric, plumbing, elevator and all equipment; Russell Brown Co., 3104 Main St.*

Va., Danville—Danville Warehouse Co. let contract to W. King Anderson, at \$15,000, for rebuilding and improving Exchange warehouse.

Va., Roanoke—Virginia Lumber Manufacturing Co., 102 2nd S. W. R. H. Angell, Pres., started work on 2-story, brick warehouse south of Virginia Ave. bridge.

MACHINERY, PROPOSALS AND SUPPLIES WANTED

Air Compressor.—U. S. Veterans Bureau Supply Division, Washington, D. C.—Receives bids March 25 for garage type air compressor.

Air Compressor.—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Receives bids March 20 for one air compressor, tankless in cabinet, for operation on 110-volt, A. A. 60-cycle; C. M. Sorenson Co.'s Cat. No. 220-B or equal.

Alley Paving.—City of Baltimore, Md. See Construction News—Road and Street Construction.

Architectural Plans.—Bell Avenue Baptist Church, Rev. Jas. Allen Smith, Pastor, 1908 McCallie Ave., Knoxville, Tenn.—Ready to consider plans for \$150,000 brick or stone church building; 2 stories, 95x145 ft., oak floors, concrete foundation, tile roof, seat 300; also wants to hear from bonding companies or firms that finance churches.

Automobile Busses.—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Receives bids March 25 for two street car type automobile busses, to seat not less than 21 persons.

Automobile Novelty Device.—J. C. Ford, 8 S. Front St., Memphis, Tenn.—Wants to contract for the manufacture of novelty device to be attached to an automobile.

Automotive Supplies, etc.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids March 23 to furnish hardware and automotive supplies; delivery Marine Barracks, Quantico, Va.; Sch. 483.

Blower or Fan.—See Saw Mill Equipment. **Boilers.**—Reed Lumber Co., Centreville, Miss.—Wants prices on boilers for 25,000 ft. capacity saw mill.

Boilers.—City of Victoria, Tex.—Receives bids March 26 to furnish material, accessories and labor to construct and deliver two 22-in. horizontal tubular boilers with tubes 18 ft. long; plans at office of Supt. of Water Works, City Hall.

Boilers.—City of Victoria, Tex., care of S. S. Siterle.—Receives bids March 26 for 72-in. horizontal tubular boilers with tubes 18 ft. long; W. E. LaNone, Engr., Texas Bank Bldg., San Antonio, Tex.

Bridge.—City of Atlanta, Ga., will build 3 bridges. See Construction News—Bridges, Culverts, Viaducts.

Bridge.—Maury County, Columbia, S. C., will build 4 bridges. See Construction News—Bridges, Culverts, Viaducts.

Bridge.—Dept. of Highways and Public Works, Nashville, Tenn., will build 11 bridges. See Construction News—Road and Street Construction.

Bridge.—City of Greensboro, N. C., will build 2 bridges. See Construction News—Bridges, Culverts, Viaducts.

Bridge.—State Road Dept., Tallahassee, Fla., will build 3 bridges and 18 culverts. See Construction News—Road and Street Construction.

Bridge.—State Highway Dept. Jefferson City, Mo., will build 20 bridges. See Con-

struction News—Bridge, Culverts, Viaducts.

Bridge.—Dept. of Highways and Public Works, Nashville, Tenn., will build 12 bridges. See Construction News—Road and Street Construction.

Bridge.—Richmond County, Augusta, Ga., will build 2 bridges. See Construction News—Bridges, Culverts, Viaducts.

Bridge.—City of Waco, Tex. See Construction News—Bridges, Culverts, Viaducts.

Brushes and Brooms.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids March 24 to furnish brushes and brooms, delivery Philadelphia, Pa. Sch. 471.

Building Material.—L. C. Bridger, Cashier, Bank of Bladenboro, Bladenboro, N. C.—Wants prices on gray face brick, green roof tile, plain and Spanish, exterior and interior millwork, oak and birch flooring, plaster, metal lath and cornice beads, conduit and electrical fixtures, pneumatic water system, plumbing fixtures, hot water heating system.

Building Materials (Catalogs).—Lockett & Chachere, 521 Baronne St., New Orleans, La.—Want catalogs from manufacturers of building materials.

Caps and Coats.—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Receives bids March 23 to furnish 144 drilling caps and 6000 white coats, various sizes; quotations f.o.b. point of shipment.

Cars (Dump).—L. J. Breed Equipment Co., 824 James Bldg., Chattanooga, Tenn.—Wants twenty 4-yd., 36-in. gauge dump cars, Alabama delivery.

Catch Basins.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids March 20 to furnish 12 catch basins; delivery Marine Barracks, Quantico, Va.; Sch. 484.

Cement (Portland).—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids March 24 to furnish 3000 lbs. Portland cement for Post Quartermaster, Quantico, Va.; Sch. 487.

Chairs.—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Receives bids March 23 for 150 porch rocking chairs; Northern Calef & Co.'s model No. 1 or equal.

Channels.—Burton-Swartz Cypress Co. of Florida, Perry, Fla.—Wants 50 to 100 heavy section used channels, 20 to 22 ft., not necessarily all one width, can be 10 to 14 in.; f. o. b. Jacksonville.

Crane (Electric).—Merrill B. Parker, Engr., 1912 Oak St., Chattanooga, Tenn.—Wants 15 ton, 60 ft. span electric traveling crane, equipped with D. C. motors, complete with runway; second-hand.

Coffee Urns.—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Receives bids March 24 for set steam-jacketed coffee urns, consist of three urns, each 20-gal capacity.

Crusher, etc.—Dr. W. A. King, Waynesboro, Va.—Wants second-hand jaw crusher, elevator and screen; capacity about 100 tons daily.

Cylinder Grinding Machine.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids March 24 to furnish one cylinder grinding machine, delivery Quantico, Va.; Sch. 490.

Distilling (Water) Apparatus.—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Receives bids March 20 for automatic water distilling apparatus; The Barnstead Still & Sterilizer Co.'s Cat. type L or equal.

Dredging.—City of Leesburg, Fla., D. E. Bivens, City Mgr.—Receives bids April 27 to furnish all equipment, labor for approximately 46,500 cu. yds. sand and muck fill. S. H. Jaudon Engineering Co., Engrs., Leesburg.

Dredging.—U. S. Engineer Office, Galveston, Tex.—Receives bids April 4 to dredge Sabine Neeches Waterway, Tex.

Embosser Hand Stamps.—Andrews Coffee Co., Gainesville, Fla.—Wants to correspond with manufacturers of embosser hand stamps.

Elevators.—Board of Awards, F. A. Dolfeld, City Register, City Hall, Baltimore, Md.—Receives bids March 26 for repairs to elevators Nos. 1 and 2 in Courthouse; C. H. Osborne, Inspector of Buildings.

Elevator.—See Crusher, etc.

Engines.—Reed Lumber Co., Centreville, Miss.—Wants prices on engines for 25,000 ft. capacity saw mill.

Flooring.—Guyan Machine Shops, Logan, W. Va.—Wants about 2000 sq. ft. flooring, 2 to 3-in. thick, tongue and groove, surfaced.

Graders.—See Street Equipment and Machinery.

Fire Hose.—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Receives bids March 25 for 500 ft. of 2½-in. fire hose.

Fire Hose, etc.—Navy Dept., Bureau of Supplies and Accounts, Washington, D. C.—Receives bids March 24 to deliver telephone cord and fire hose to Navy Yard, Washington.

Footway Paving.—City of Baltimore, Md. See Construction News—Road and Street Construction.

Electric Wiring.—See Mechanical Equipment.

Gas Bake Oven.—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Receives bids March 27 for gas bake oven for U. S. Veterans Hospital, Excelsior Springs, Mo.

Granite Screenings.—Arnold Brick and Tile Co., Lem Turner Rd., Jacksonville, Fla.—Wants granite screenings from ½ of inch down, free from dust.

Gravel.—Louisiana Highway Comm., Raymond Bldg., Baton Rouge, La.—Receives bids April 7 to furnish gravel to surface 2.61 mi. East Feliciana Parish; plans on file; W. B. Robert, State Highway Engr.

Gravel.—Louisiana Highway Comm., Raymond Bldg., Baton Rouge, La.—Receives bids April 14 to furnish gravel to surface 7.515 mi. Jefferson Parish; plans on file; W. B. Robert, State Highway Engr.

Gravel.—Gulf Iron Works, J. S. Long, V. P., Tampa, Fla.—Wants to purchase gravel; contemplates establishing sand, gravel, rock and cement plant.

Hardware.—Ralph H. Cameron, City National Bank Bldg., San Antonio, Tex.—Wants bids until April 15 on hardware for 13-story and basement Medical Arts Building under construction.

Heating, Lighting, etc.—Snowden Ashford, Archt., 1707 Eye St., N. W., Washington, D. C.—Receives bids March 23 for heating, lighting and plumbing in addition to Hyattsville High School, Hyattsville, Md.

Heating System.—See Mechanical Equipment.

Hack Saws.—Guyan Machine Shops, Logan, W. Va.—Wants hack saws, 17 to 20-in. blades, arranged for motor drive.

Hardware, etc.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids March 25 to furnish hardware, etc.; delivery Quantico, Va.; Sch. 488.

Heating System.—W. S. Haddock, Box 4, Moundsville, W. Va.—Wants data and prices on heating system for 75x100-ft. building.

Lumber Buggies.—See Saw Mill Equipment.

Lamp Posts.—Board of Awards, F. A. Dolfield, City Register, Baltimore, Md.—Receives bids March 25 for lamp posts; Bernard L. Crozier, Highways Engr.

Lockers.—Dist. Comms., 509 Dist. Bldg., Washington, D. C.—Receives bids April 6 to furnish and install new lockers, repair old lockers now in use in public schools.

Lumber.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids March 26 to furnish 520,000 B. M. ft. lumber, long leaf Southern and yellow pine; Sch. 492.

Magnet (Mushroom).—W. M. Smith & Co., First Ave., Birmingham, Ala.—Wants one mushroom type magnet, used equipment.

Magnifying Glass.—T. O. Tippit, Blossom, Texas.—Wants to correspond with manufacturers of magnifying glasses.

Marine Railway.—W. M. Smith & Co., First Ave., Birmingham, Ala.—Wants marine railway.

Mechanical Equipment.—Board of Education, Wadesboro, N. C.—Receives bids April 1 for low-pressure steam heating system, plumbing and electric wiring, installed in Consolidated School, Ansonville, N. C.; W. D. Harper & Co., Archts., Florence, S. C.

Meters.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids March 26 to furnish 116 meters, watthour, 5 amperes and 6 meters, 15 amperes; delivery Marine Barracks, Quantico, Va.; Sch. 493.

Miscellaneous Supplies.—Panama Canal, A. L. Flint, General Purchasing Officer, Washington, D. C.—Receives bids March 28 to furnish garage jack; brass valves; steel rivets; positive lock washers; steel cans; car seat webbing; dry white lead; spruce planking, etc. Blank forms and information (Circular 2378) on application to offices of Panama Canal; Asst. Purchasing Agents at Fort Mason, San Francisco, Cal.

Motor.—Guyan Machine Shops, Logan, W. Va.—Wants 5 h.p. slip ring motor, 600 to 1200 r.p.m., 3-phase, 60-cycle, 220-volts.

Motor.—Hackley Morrison Co., Inc., 1708 Lewis St., Richmond, Va.—Wants one 10 h.p., 3 phase, 60 cycle, 220 volt, back geared motor.

Miscellaneous Supplies.—Panama Canal, A. L. Flint, General Purchasing Officer, Washington, D. C.—Receives bids March 27 to furnish corrugated roofing, iron or steel sheets, copper, brass, bronze, yellow metal, solder fans, dry cells, vacuum tubes, spotlights, fuses, sockets, torches, grindstones, bolts, nuts, rivets, screws, washers, blocks, nails, screw eyes, hinges, draw knobs, gloves, beeswax, library paste, etc. Blank forms and information (Circular 1659) on

application to offices of Panama Canal; Asst. Purchasing Agents at 24 State St., New York; 611 Gravier St., New Orleans, La.; Fort Mason, San Francisco, Cal.; U. S. Engineer offices throughout country.

Nails and Tacks.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids March 27 to furnish 200 lbs. horseshoe nails; 5000 lbs. roofing nails; 50,000 lbs. common wire nails; 10,000 lbs. cement coated wire nails and 8000 pkgs. carpet tacks; delivery 1100 S. Broad St., Philadelphia, Pa.; Sch. 494.

Novelties.—A. Crinkley, 115 Forest Hill Drive, Asheville, N. C.—Wants to correspond with manufacturers of novelties, with view to representation.

Oil and Gasoline.—Sec. of the Interior, Washington, D. C.—Receives bids March 23 to purchase oil and natural gas gasoline from wells of the Red River bed.

Paint, etc.—State Highway Dept., East Point, Ga.—Receives bids April 3 to furnish 800 gal. red lead paint; 1500 gal. natural graphite paint and 50 gal. turpentine and 30 gal. dryer; prices f. o. b. East Point and Dublin; W. R. Neel, State Highway Engr.

Painting.—Board of Awards, F. A. Dolfield, Register, City Hall, Baltimore, Md.—Receives bids March 26 for interior and exterior painting at No. 18 engine company, Twenty-first St. and Maryland Ave.; C. H. Osborne, Inspector of Buildings.

Paper.—Treasury Dept., Bureau of Engraving and Printing, Washington, D. C.—Receives bids April 30 to furnish Bureau with postage stamp paper and internal revenue paper during fiscal year beginning July 1, 1925.

Paper Bag Machinery.—W. D. Babington, 516 S. Church St., Charlotte, N. C.—Wants machinery to make paper bags.

Paving.—City of Post City, Tex. See Construction News—Road and Street Construction.

Pipe.—See Sewer Construction.

Reduction Gears.—W. M. Smith & Co., First Ave., Birmingham, Ala.—Wants several sets of large reduction gears.

Pipe, Couplings, etc.—Board of Awards, F. A. Dolfield, City Register, Baltimore, Md.—Receives bids March 26 to furnish and deliver galvanized wrought iron pipe, couplings and malleable iron fittings to water department; V. Bernard Siems, Water Engr.

Pipe.—Alex. M. Robinson, Georgetown, Ky.—Wants several thousand feet of 12 lb. O. D. plain ends pipe, approximately 32 lb. to the foot; prices f. o. b. cars point of loading, state condition, location.

Pipe (Cast Iron).—See Water Works and Sewers.

Plumbing.—See Heating, Lighting, etc.

Photographic Machine.—D. O. Vaughan, Geneva, Ala.—Wants Machine to photograph county records.

Plumbing.—See Mechanical Equipment.

Road.—State Highway Dept., Jefferson City, Mo., will build 50 roads. See Construction News—Road and Street Construction.

Plumbing Supplies.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids March 30 to furnish plumbing supplies, delivery Marine Barracks, Quantico, Va.; Sch. 497.

Press (Tire).—Guyan Machine Shops, Logan, W. Va.—Wants press for solid truck tires, 250-ton capacity.

Press (Baling).—Liberty Garment Co., Liberty, N. C.—Wants press for baling overalls; correspond with manufacturers.

Pumping System.—W. S. Haddock, Box 4, Moundsville, W. Va.—Wants data and prices on system to pump water from artesian wells to swimming pool.

Punching Machine.—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Re-

ceives bids March 21 for one foot power punching machine, with two round hole punch heads with two No. 250 punches; quotations f.o.b. point of shipment.

Reservoir (Concrete).—Town of Carthage, N. C.—Receives bids soon on 200,000 gal. capacity concrete reservoir; The Carolina Engineering Co., Engrs., 917 Johnston Bldg., Charlotte, N. C.

Rails.—W. M. Smith & Co., First Ave., Birmingham, Ala.—Wants 6-mil., 80 to 100 lbs. of No. 1 relay rails; North Carolina delivery.

Road.—Dept. of Highways and Public Works, Nashville, Tenn., will build 4 roads. See Construction News—Road and Street Construction.

Road.—Louisiana Highway Comm., Baton Rouge, La., will build 2 roads. See Construction News—Road and Street Construction.

Road.—Louisiana Highway Comm., Baton Rouge, La. See Construction News—Road and Street Construction.

Road.—Sarasota County, Sarasota, Fla. See Construction News—Road and Street Construction.

Road.—Jack County, Jacksboro, Tex. See Construction News—Road and Street Construction.

Road.—State Road Dept., Tallahassee, Fla. See Construction News—Road and Street Construction.

Road.—Harrison County, Clarksburg, W. Va., will improve 9 roads. See Construction News—Road and Street Construction.

Road.—Dept. of Highways and Public Works, Nashville, Tenn., will improve 8 roads. See Construction News—Road and Street Construction.

Rugs (Axminster).—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Receives bids April 9 for axminster rugs in various sizes.

Saw Mill Equipment.—Reed Lumber Co., Centreville, Miss.—Wants prices on new or second-hand equipment, including fast feed planing machine; blower or fan; cyclone self feed slab conveyors; pumps; lumber buggies, etc., for 25,000 ft. capacity mill.

Screen.—See Crusher, etc.

Steel Rolling Doors.—H. Raisman, 4551 Prospect Ave., Los Angeles, Cal.—Wants data and prices on steel rolling doors.

Sepic Tank.—See Sewer Construction.

Sewers.—See Water Works and Sewers.

Sidewalk.—City of Jefferson City, Mo. See Construction News—Road and Street Construction.

Sewers.—City of Tuscaloosa, Ala., W. H. Nicol, Engr.—Receives bids April 7 for 490 lin. ft. of 24-in., 410-ft. of 21-in., 391 lin. ft. of 18-in., 588 ft. of 15-in., 345 ft. of 12-in. and 102 ft. of 6-in., 165-ft. of 4-in. sewers; 15 catch basins, 7 brick manholes, one concrete headwall.

Sewer Construction.—Town of Kings Mountain, N. C.—Receives bids March 28 for construction of one concrete septic tank, sludge bed and 300 ft. of 12-in. pipe; The Carolina Engineering Co., Engrs., 917 Johnston Bldg., Charlotte, N. C.

Sewer.—Town of Lake Maitland, Fla. See Construction News—Road and Street Construction.

Sewer Construction.—District Comms., Room 500 District Bldg., Washington, D. C.—Receives bids March 26 for constructing about 14,612 lin. ft. of sewers.

Sewer Construction.—Town of Wilson, N. C., Silas R. Lucas, Mayor.—Receives bids March 30 for Stantonburg St. sanitary sewer outfall; work consists of furnishing and laying, complete, sanitary sewer system, following approximate quantities: 9500 cu. yds. trench excavation at different depths; 2000 lin. ft. 12-in. and 2500 lin. ft. of 15-in. clay, shale or fireclay pipe; 200 lin. ft. 12-in. Class A cast iron pipe, and 150 lin. ft. of 15-in.

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Class A cast-iron pipe; 20 manholes; R. D. Gladding, Conslt. Engrs., Wilson.

Sewer Construction.—City of Baltimore, Md., Howard W. Jackson, Pres. Board of Awards.—Receives bids March 26 for storm drains and sanitary sewers in Sewer Dists. G-14 and J-1, as embraced on storm Water Contract No. 81; work includes 3505 lin. ft. of brick and concrete monolithic circular section drain, 42-in. to 60-in. inside diam., of which 650 lin. ft. is to be constructed in tunnel, 1845 lin. ft. of reinforced concrete pipe drain, 24-in. to 48-in. inside diam.; 6290 lin. ft. vitrified pipe sewers and drains, 6-in. to 24-in. inside diam.; 440 lin. ft. 7 ft. x 4 ft. brick and concrete box drains; 220 lin. ft. 6 ft. x 3 ft. 6 in. brick and concrete box drain; Bernard L. Crozier, Highways Engr.

Shelving (Book).—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Receives bids March 24 for 1 group book shelving; Library Bureau No. 7031 or equal.

Sheet Iron (Galvanized).—Robertson Oil Co., Boulevard Bank Bldg., Leakesville-Spray, N. C.—Wants heavy galvanized sheet iron for construction of large gasoline tanks.

Shovel.—McCall Engineering Co., Engr., 307 Amicable Bldg., Waco, Tex.—Wants prices on $\frac{3}{4}$ -yd. crawler type, steam or gas Bucyrus shovel, good condition.

Steel Standpipe.—Town of Carthage, N. C.—Receives bids soon on 19x100 ft., steel standpipe; The Carolina Engineering Co., Engrs., 917 Johnston Bldg., Charlotte, N. C.

Stone Channeling Machine.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids March 16 to furnish one stone channeling machine, Marine Barracks, Quantico, Va.; Sch. 472.

Street Construction.—City of Tuscaloosa, Ala. See Construction News—Road and Street Construction.

Street Improvement.—City of Elizabeth City, N. C. See Construction News—Road and Street Construction.

Street Improvement.—Town of Lake Maitland, Fla. See Construction News—Road and Street Construction.

Street Paving.—City of Chattanooga, Tenn. See Construction News—Road and Street Construction.

Street Improvement.—City of Ashland, Ky. See Construction News—Road and Street Construction.

Street Improvement.—City of Elizabeth, Tenn. See Construction News—Road and Street Construction.

Street Improvement.—City of Davenport, Fla. See Construction News—Road and Street Construction.

Street Equipment and Machinery.—City of Houston, Tex., O. F. Holcombe, Mayor.—Receives bids for 2 motor pick-up sweepers, two 7-ft. graders and four 1-ton trucks; W. R. Britton, Street Commr.

Street Paving.—City of Pine Bluff, Ark. See Construction News—Road and Street Construction.

Street Signs.—Board of Aldermen, Fayetteville, N. C.—Receives bids March 28 for signs for naming streets and avenues; H. J. McBride, City Clk.

Steel Roofing.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids March 23 to furnish 3000 sheets steel roofing, 26x96-in.; 500 sheets of 26x120-in. steel roofing; 2500 lbs. nails; 500 lbs. washers for Depot Quartermaster, Hampton Roads, Va.; Sch. 481.

Street Improvement.—City of Birmingham, Ala. See Construction News—Road and Street Construction.

Surgical Instruments.—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Receives bids March 23 for surgical instruments for Hospital No. 100-56-C, Camp Custer, Mich.

Sweepers.—See Street Equipment and Machinery.

Sweeper.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids March 24 to furnish one animal drawn sweeper; delivery Quantico, Va.; Sch. 489.

Tractors.—Geo. S. Matthews, Travis County Judge, Austin, Tex.—Receives bids April 4 for three tractors, about 40 h. p., for use on roadways; O. Leonard, County Engr., Box 256, Austin.

Transmission Line.—See Water Works and Sewers.

Thread (Cotton).—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Receives bids March 23 for 3118 doz. spools of cotton thread, Clark's O. N. T. from Nos. 8 to 70; quotations f. o. b. point of shipment.

Truck (Fire).—Board of Alderman, Fayetteville, N. C.—Receives bids March 28 for one standard city service motor ladder truck, not less than 60 h. p., A. L. A. M. rating, equipped with 60 ft. extension ladders, chemical tank and hose; H. J. McBride, City Clk.

Trucks.—See Street Equipment and Machinery.

Trucks.—Beaufort County Road Coms., Washington, D. C.—Wants bids April 6 for one 2-ton truck chassis and cab, complete, two 1-ton trucks, pneumatic tires, cab and windshield, complete.

Veneer Panels.—H. M. Wade Manufacturing Co., S. Graham, Ext., Charlotte, N. C.—Wants to correspond with manufacturers of veneer or ply-wood panels located in North and South Carolina.

Water Works and Sewers.—Town Commrs. of Apex, N. C.—Receives bids April 15 for water works and sewerage; work includes: Brick and concrete pumping station, and complete filter plant; steel wash water tank and tower; steel storage tank and tower; cast iron pipe line; 2200 volt transmission line; cast iron water mains; motor driven centrifugal pumps and accessories; 3 miles sewer extensions; Gilbert C. White Co., Engrs., Durham.

Welding Machine (Electric).—W. M. Smith & Co., First Ave., Birmingham, Ala.—Wants used electric welding machine.

Financial News

New Financial Corporations

Ala., Anniston—City Savings & Loan Co., capital \$10,000, incorporated; W. G. Crutchfield, W. S. Coleman.

D. C., Washington—Stanley H. Horner, Inc., 1015 14th St., capital \$100,000, incorporated; Stanley H. Horner, Pres.; Thos. D. Davidson, Sec.*

Fla., Bradenton—Cummings Investment Co., capital \$200,000, incorporated; John W. Cummings, Pres.; M. B. Kirby, Sec.-Treas.

Fla., Clearwater—Guaranty Title and Trust Co., increased capital, \$75,000 to \$200,000.

Fla., Dania—Empire Finance Construction Co., capital \$25,000, incorporated; Geo. P. Spittal, Pres.; John L. Snarr, V.-P. and Sec.

Fla., Daytona—Underwriters' Securities Co., capital \$100,000, incorporated; A. S. Bamhart, Pres.; C. E. Campbell, Sec.-Treas.

Fla., Orlando—Franklin Investment Co., incorporated; A. L. Franklin, Pres.; J. E. Franklin, Sec.-Treas.

Fla., Vero—Vero Building & Loan Assn., organized; J. C. DuBose, Pres.; G. C. Gow, Sec.-Treas.

Fla., Miami—Bird Road Investment Co., capital \$80,000, incorporated; S. B. Goodkind,

Pres., 1207 N. W. 2nd St.; J. E. Hunter, Jr., Sec.-Treas.

Fla., Miami—Meyer-Kiser Bank of Miami, Meyer-Kiser Bank Bldg., capital \$150,000, organized; Sol Meyer, Pres.; H. G. Prevatt, Sec.; affiliated with Meyer-Kiser Bank, and Meyer-Kiser Corporation of Indianapolis, capital and surplus \$3,500,000.*

La., Lake Charles—Hollins Insurance Agency, Inc., capital \$30,000, incorporated; Arthur Hollins, Sr., Pres., Broad St.; Arthur Hollins, Sec.-Treas.

La., New Orleans—Partners Investment Co., capital \$70,000, incorporated; Jos. C. LeBourgeois, Sr., Pres., 1525 State St.; John John G. O'Kelley, Sec.-Treas., 1535 Octavia Street.

Ga., Lawrenceville—Agricultural Finance Corp., capital \$25,000, incorporated; C. R. Ware, Pres.; J. V. Hood, Sec.-Treas.

Md., Baltimore—Westwood Building & Loan Assn., Inc., 411 Munsey Bldg., capital \$100,000, incorporated; M. Daniel Moss, Robert Press.

Md., Baltimore—Strand Building & Loan Assn., 729 Munsey Bldg., capital \$200,000, incorporated; Bernard Feiken, Louis D. Jeffrey.

Md., Brunswick—Brunswick Building & Loan Assn., incorporated; Howard Marvin Jones, Res. Agt.; Eugene Harrison.

Md., Frostburg—Investors' Co-operative Securities Corp., capital \$50,000, incorporated; John E. Taylor, Allison E. Thomas.

Miss., Ripley—People's Bank, incorporated; Fred B. Smith, J. C. Dixon.

Miss., Vicksburg—Mississippi Finance Co., capital \$25,000, incorporated; A. A. Weille, R. L. McLaurin.

Mo., Kansas City—John B. Case Investment Co., capital \$25,000, incorporated; Robert S. McClinton, 522 Lee Bldg.; M. M. Tozer.

Mo., Kansas City—Bankers Finance Corp., capital \$100,000, incorporated; Chas. J. Little, Redmond S. Brennan, 1218 Commerce Bldg.

Mo., St. Louis—Jefferson Realty & Investment Co., capital \$50,000, incorporated; J. H. Eisenhour, 2832 A Cherokee; N. Mueller.

Mo., St. Louis—Cass Ave. Savings & Loan Assn., capital \$100,000, incorporated; M. K. Grecky, 1504 Cass St.

Mo., St. Louis—Wellston Loan Co., capital \$10,000 incorporated; C. M. Hicks, Federal National Bank Bldg.; M. Hart.

Mo., Springfield—Burton Building & Loan Assn., Woodruff Bldg., increased capital, \$5,000,000 to \$6,000,000.

N. C., Forest City—Industrial Loan & Investment Bank of Forest City, capital \$100,000, incorporated; J. H. Thomas, B. B. Doggett.

N. C., Kinston—Lenoir Realty Co., capital \$25,000, incorporated; W. D. LaRoque, J. C. Hewitt, Kinston.

Tenn., Memphis—Fidelity Investment Co., 77 Madison St., capital \$25,000, incorporated; John D. McDowell, J. T. Russell.

Tex., Dallas—Trinity Fire Insurance Co., capital \$1,000,000, incorporated; R. A. Belknap, J. E. Jarratt, organizing trustees, Interurban Bldg., Dallas.

Tex., Dallas—Service Investment Co., incorporated; E. P. Kemper, E. M. Herndon, Merchants Bank Bldg.

Tex., Littlefield—Plains Investment Co., capital \$100,000, incorporated; M. H. and D. C. Reed.

Tex., Port Arthur—Fidelity Finance Co., capital \$25,000, incorporated; J. E. Day, 839 Fifth St., R. L. Lyles, Jr.

Tex., Waco—People's Finance Co., of Waco, 112 N. 6th St., capital \$50,000, incorporated; W. W. Lastinger, Pres.; J. Russell, Sec.*

W. Va., Princeton—J. H. McGlothlin, W. D. Shuff interested in establishing Building and Loan Assn.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

CONSTRUCTION DEPARTMENT

W. Va., Richwood—Gauley Insurance Co. organized; A. L. Craig, E. F. Coleman.

New Securities

Ala., Albany—Bridge—City votes April 7 on \$50,000 bonds. Address City Clk.

Ala., Decatur—Bridge—City votes April 7 on \$50,000 bonds. Address City Clk.*

Ala., Albany—Refund—Alabama Public Service Comm., granted authority Alabama Water Co., John B. Weakley, Pres., to issue and sell \$130,000 first mortgage 6% bonds.

Ala., Mobile—Harbor—Alabama Dock Comm., at Montgomery, sold \$900,000 bonds to Ward, Sterne & Co., B. M. Bldg., Birmingham, at par plus premium of \$4525; Wm. M. Brandon, Governor.*

Ala., Phenix City—Water Works—City voted \$80,000 bonds. Address City Clk.*

Ark., Waldron—Refunding—Scott County is considering \$75,000 bond issue; H. L. Fuller, County Clk.

Fla., Apopka City—Street Paving—Town, H. D. Miley, Clk., receives bids Mar. 24 for \$30,000 6% \$1000 denom. bonds.

Fla., Bartow—Road—Polk County contemplates \$325,000 bond election. Address County Commrs.

Fla., Bartow—Road—Polk County votes April 7 on \$625,000 bonds. Address County Commrs.

Fla., Clearwater—Road—Pinellas County voted \$1,000,000 bonds. Address County Commrs.*

Fla., Clearwater—Road and Causeway—Pinellas County sold \$1,000,000 6% bonds jointly to First National Bank of Tampa and People's Bank of Clearwater.*

Fla., Dania—Municipal Improvement—Town contemplates \$200,000 bond issue; \$100,000, street improvement; later \$25,000, city hall, and \$75,000 water-works extension; Henry T. Tubbs, Mayor.

Fla., Ellenton—Water Works, Sewer—City votes \$46,000 bonds. Address City Clk.

Fla., Fort Meade—School—Polk County Commrs., Bartow, will call election in Apr. on \$100,000 bonds.

Fla., Haines City—Jail—City Comm. is considering bond issue; Jess P. Ferrill, City Mgr.

Fla., Key West—Municipal Improvement—Monroe County voted \$2,650,000 bonds; \$2,000,000, complete Key West to Key Largo road; \$500,000, ocean front boulevard and seawall around Key West; \$100,000, Tamiami Trail; \$50,000, Cape Sable road. Address County Commrs.*

Fla., La Belle—School—Hendry County Board of Education will call election this week on \$50,000 bonds.

Fla., Leesburg—Dredging—City contemplates \$100,000 bond election; D. E. Bivins, City Mgr.

Fla., Live Oak—School—Suwannee County, Board of Public Instruction, Burr L. Bixler, Chmn., receives bids April 7 for \$10,000 6% Special Tax School Dist. No. 2 bonds.

Fla., Manatee—Improvement—City, Chas. J. Morjory, City Comptroller, receives bids March 18 for \$142,000, 5½% bonds.

Fla., Miami—Road and Bridge—Dade County Commrs., Geo. F. Holly, Clk., receives bids April 1 for \$870,000 5% bonds; \$300,000, causeway bridge; \$100,000 West Dixie Highway; \$160,000 Southeast Eighth St., West; \$125,000, Tamiami Trail; \$185,000 General Highway County bonds.

Fla., Okeechobee—Water Works—City receives bids Apr. 20 for \$110,000 6% bonds; R. P. Fletcher, Clk.; T. W. Conely, Jr., Mayor.

Fla., St. Petersburg—Municipal Improvement—City votes May 12 on \$2,414,000 bonds: \$1,000,000 municipal pier, \$490,000 street opening, \$250,000 waterfront park, \$194,000 two-yacht basins, seawalls and fills, \$18,000 Booker Creek drainage. Address City Clk.

Fla., St. Petersburg—School—Pinellas County voted \$1,160,000 Special Tax School Dist. No. 3 bonds. Address R. S. Blanton, Sec. County School Board, Clearwater.*

Fla., Titusville—Public Improvement—City voted \$500,000 bonds: \$65,000, water; \$85,000, city's portion for sanitary sewers; \$150,000, city's portion for street improvement; \$35,000, public parks and promenades; \$15,000, fire department; \$25,000, public office building; \$125,000, storm sewers; J. P. Wilson, City Clk.*

Fla., Titusville—Road—Brevard County voted \$60,000 bonds. Address County Commissioners.

Fla., Vero—Sewer—City, H. G. Redstone, Clk., sold \$126,000 6%, \$1000 denom bonds to Prudden & Co., Toledo, at premium of \$2,875.50.*

Fla., Tampa—School—Hillsborough County, Board of Public Instruction, sold \$100,000 6% Special Tax School, Dist. No. 36 bonds to W. L. Slatton & Co., Toledo, at \$107,180 and accrued interest.*

Fla., Wauchula—School—Supt. of Public Instruction receives bids April 6 for \$75,000 bonds.

Ky., Ashland—City Building—City, Harry L. Carroll, Clk., receives bids March 20 for \$200,000, 4¾% bonds.

Ky., Bowling Green—Hospital—City, Fred Keune, Jr., Clk., receives bids this week for \$125,000, 5% bonds.

Ky., Jennings—Road—Jefferson Davis and Allen Parishes Police Juries, received low bids for \$75,000 6% \$500 denom. Elton Road Dist. No. 1 bonds from Interstate Trust & Banking Co., New Orleans, at par, accrued interest and premium of \$3885.*

Ky., Mansura—Water and Light—City sold \$55,000, 5¾% bonds to Peoples Savings Bank, Mansura, at par, accrued interest and premium of \$250.*

Ky., Port Allen—Drainage—West Baton Rouge Parish, Choctaw Basin Drainage Dist., Wm. L. Bernard, Sec., sold \$100,000 6% bonds to Interstate Trust & Banking Co., New Orleans, at par and premium of \$750.*

Ky., Hancock—Water, Sewer—City votes April 6 on \$10,000 bonds.

Ky., Rockville—Road—Montgomery County Commrs. sold \$33,000 4½% \$1000 denom. bonds to Frank B. Cahn & Co., 7 St. Paul St., Baltimore, Md., at 101.54.*

Ky., Ackerman—Road—Choctaw County voted \$371,000 bonds. Address Board of Supervs.*

Ky., Belzoni—Road—Humphreys County, Board of Supervs., receives bids March 22 for \$140,000 Southern Separate Road Dist. bonds.*

Ky., Charleston—Road—Tallahatchie County, Board of Supervs., Beat 3, votes March 28 on \$80,000 bonds.

Ky., Gulfport—Road and Bridge—Harrison County, Board of Supervs., voted \$1,500,000 bonds.*

Ky., Laurel—Road—Jones County Board of Supervs., Beat 3, voted \$75,000 bonds; receives bids April 6 for bonds.*

Ky., Handsboro—School—Harrison County Board of Supervs., Gulfport, will call election Apr. 4 on \$21,000 Handsboro Separate School Dist. bonds.

Ky., Lexington—Road—Holmes County, Board of Supervs., Beat 2, votes April 4 on \$40,000 bonds.

Ky., Magnolia—Road—Pike County Board of Supervs., Fourth Road Dist., votes April 4 on \$125,000 bonds.*

Ky., Ripley—Road—Tippah County de-

Manufacturers Record

feated \$300,000 bond issue; A. M. Young, Chancery, Clk.*

Miss., Starkville—Road—Oktibbeha County sold \$12,000 Supvs. Dist. No. 1 bonds, to Merchants and Farmers Bank, Starkville.

Miss., Woodville—Road—Wilkinson County votes April 11 on \$100,000 bonds. Address County Commrs.*

Miss., Yazoo City—Courthouse—Yazoo County votes March 31 on \$50,000 bonds. Address Board of Supvs.

Mo., Cape Girardeau—School—Board of Education plans calling election April 7 on bonds; Lee L. Bowman, Pres.

Mo., Kahoka—Street Improvement—City sold \$20,000 bonds to Mississippi Valley Trust Co. of St. Louis, at premium of \$614.*

Mo., Marshfield—School—School Board plans calling election April 7 on \$25,000 bonds.

Mo., Steele—Water Works—City voted \$30,000 bonds. Address City Clk.

Mo., West Plains—Sewer—City votes on bonds; Axon & Russell, Engrs., Springfield. Address City Clk.

N. C., Anderson—Electric Light Plant—Board of Aldermen contemplate \$50,000 bond issue.

N. C., Asheville—Buncombe County Commissioners plan \$300,000 bond issue to cover short term note.

N. C., Beaufort—School—City votes this week on \$100,000 bonds. Address City Clk.

N. C., Conetoe—Electric Light and Power—Town Commrs., R. L. Moore, Clk., receives bonds March 24 for \$10,000, 6% bonds.

N. C., Hertford—Indebtedness—Perquimans County Commrs. W. F. C. Edwards, Clk., receives bids Apr. 9 for \$15,000 6% \$1000 denom. bonds.

N. C., High Point—School—City plans voting soon on \$750,000 bonds. Address School Commrs.

N. C., Lexington—School—City votes April 21 on \$50,000 bonds. Address Pres. School Board.

N. C., Lexington—Bridge Indebtedness—Davidson and Davie Counties contemplate \$200,000 bond issue. Address County Commissioners.

N. C., Morehead—Street Improvement—City sold \$50,000 6% bonds to Caldwell & Co., Nashville.*

N. C., Selma—Water—Board of Commrs., W. H. Poole, Jr., Clk., receives bids Mar. 20 for \$17,500 6% bonds.

Okl., Blair—Water Works—City votes April 13 on \$30,000 6% bonds. Address City Clk.

Okl., Duncan—Road—Stephens County, Loco, Brown and McPherson Townships, votes April 7 on \$245,000 bonds. Address County Commrs.

Okl., Lawton—Road—Comanche County voted \$400,000 bonds; F. P. Aycock, County Clk.*

S. C., Abbeville—School—Board of Trustees of Sharon School Dist. will call election Mar. 21 on \$9500 6% bonds; T. H. Watson, Sec.

S. C., Charleston—Paving—City, W. S. Smith, Treas., receives bids April 1 for \$292,000 6% \$1000 denom. Series E bonds.

S. C., Georgetown—Bridge—Georgetown County Commrs., W. A. Campbell, Clk., receives bids Apr. 7 for \$60,000 5½% bonds.

S. C., Hampton—School—Hampton School Dist. No. 15, Hampton County, receives bids Mar. 28 for \$20,000 6% bonds; Randolph Murdaugh, Atty for School Dist. No. 15.*

S. C., Union—School—City sold \$150,000 5% School District bonds to Hanchette Bond Co., Chicago, at premium of \$2,250.

Tenn., Fayetteville—Water Works—City, Hiram Higgins, Clk., receives bids Mar. 30 for \$80,000 5% bonds; M. W. Thornton, Mayor.

Tenn., Maryville—School—Blount County

March 19, 1925

CONSTRUCTION DEPARTMENT

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defeated \$200,000 bond issue; Sam Johnson, Chmn. County Board of Education.*

Tenn., Nashville—Water Works—City, S. H. McKay, Clk., receives bids Mar. 27 for \$500,000 6% bonds.*

Tenn., Memphis—Revenue—City, C. C. Pashby, Clk., sold \$750,000 4½% notes to Union Planters Bank, Memphis, and Eldredge Co., New York, at premium of \$2550.*

Tenn., Nashville—Water Works—City, C. H. McKay, Clk., receives bids March 27 for \$500,000, 6% bonds.

Tenn., Savannah—Highway—Hardin County, A. A. Watson, County Judge, receives bids about April 25 for \$150,000 5% \$1000 denom. bonds. Lately noted bids Mar. 7.

Tenn., Tiptonville—School—Lake County Comms. sold bonds to Caldwell & Co., Nashville, at premium of \$965 plus expenses.

Tex., Amarillo—Water—City, Eugene S. Blasdel, Mayor, voted \$1,750,000 bonds.*

Tex., Beaumont—City sold \$150,000 paving and \$225,000 wharf bonds to H. C. Burt & Co., Houston, at par plus accrued interest plus bonus of \$11,550.*

Tex., Cameron—School—City, R. D. Brown, Sec., receives bids Mar. 24 for \$50,000 5½% bonds.

Tex., Childress—School—City voted \$25,000 5½% bonds; Roy Coffey, Pres. Board of Trustees.*

Tex., Cisco—School—City votes March 28 on \$35,000 bonds; D. S. Rumph, Pres. School Board.

Tex., Crowell—Sewer—City sold \$50,000 bonds to Commerce Trust Co. of Kansas City.*

Tex., Dallas—Central State Bank reorganized to operate 3 branches, with combined capital, surplus and undivided profits of \$1,125,000: Central National Bank, J. K. Hexter, Pres.; Central Trust & Saving Bank, John E. Owens, Pres.; Central Title Guaranty Co.

Tex., Greenville—Water Works—City, J. O. Willman, Clk., receives bids Mar. 20 for \$400,000 5% \$1000 denom. bonds.

Tex., Hallettsville—Road—Lavaca County votes in May on bonds; C. L. Stavinoha, County Judge.*

Tex., Lamesa—Water Works—City sold \$150,000 6% bonds to Brown-Crummer Co., Denver.*

Tex., Mexia—School—City votes Apr. 11 on \$100,000 bonds. Address Board of Trustees, Independent School Dist.*

Tex., Sabin—Board of Education contemplates \$65,000 bond election.

Tex., San Angelo—Municipal Improvement—City Com., E. F. Jackson, Mgr., votes Apr. 11 on \$375,000 bonds: \$275,000 sewer system, \$100,000 pavement and street improvement.*

Tex., Temple—Municipal Improvement—City votes Apr. 6 on \$285,000 bonds: \$210,000 school, \$50,000 water works improvement, \$25,000 city's share for street paving. Address City Clk.

Va., Danville — Municipal Improvement—City votes May 5 on \$950,000 bonds: \$350,000, schools; \$350,000, city hall; \$200,000, street improvement; \$50,000, sewers. Address City Clk.*

Tex., Waco—Street Improvement—City, E. E. McAdams, Mgr., votes May 12 on \$250,000 bonds.

Tex., Waco—Street Opening—City, E. E. McAdams, Mgr., votes April 14 on \$150,000 bonds.*

Tex., Waxahachie—Road—Ellis County contemplates \$750,000 bond issue; C. T. Spaulding, County Auditor.

W. Va., Beckley—Road—Raleigh County Court will call election Apr. 18 on \$750,000 bonds. Address County Comms.

Va., Fort Myer Heights—Road—Arlington County, Arlington Dist. Good Roads Comm.,

Arthur Orr, Chmn., votes April 20 on \$753,503 bonds.*

Va., Waynesboro—Refunding—City will sell \$50,000 5% bonds. Address City Clk.

W. Va., Huntington—Municipal Improvement—City, Floyd A. Chapman, Mayor, votes May 3 on \$1,150,000 bonds: \$971,000, sewer; \$309,000, bridges; \$40,000 fire stations.*

W. Va., Lewisburg—Road—Greenbrier County Comms. sold \$88,500 bonds to State of West Virginia at par.

Trade Literature

W. A. Jones Company's New Catalogue.

General Catalogue No. 30, a new publication of the W. A. Jones Foundry & Machine Company, Chicago, Ill., contains 448 pages relative to power transmission machinery data, including cut gears, cast gears, spur gear speed reducers, enclosed worm gear drives, cast-iron pulleys, friction clutches, sprocket wheels, hangers, pillow blocks, couplings, rope sheaves, etc. Firms or individuals interested can obtain copies of the catalogue from the company by sending requests written on their business letterheads.

Goulds' Report on Centrifugal Pumps.

The Goulds Manufacturing Company, Seneca Falls, N. Y., has issued in pamphlet form a report made for the company by Robert L. Daugherty, A. B., M. E., concerning an investigation of the performance of centrifugal pumps when pumping oils. This investigation was made in collaboration with the Union Oil Company of California to determine the adaptability of these pumps in such service. It is stated that in the tests petroleum products ranging from gasoline to oil of 7000 Saybolt viscosity were pumped, and the various charts show the performance of the pumps when handling them, as compared with performance when handling water. Thus the charts can be of assistance to determine the performance of centrifugal pumps when handling viscous liquids of any kind. The booklet is finely printed, with several illustrations, besides the charts.

INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers whether they are advertisers, or subscribers or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

Offering of Woodward Iron Co. Bonds.

Announcement is made elsewhere in this issue of an offering by Clark, Dodge & Co., 51 Wall street, New York, of an issue of \$1,396,000 of the first and consolidated mortgage 5 per cent sinking fund gold bonds of the Woodward Iron Company, this offering being the balance of the amount issued to retire the Birmingham Iron Co. 5 per cent bonds due April, 1926. These bonds, it is stated, are now first mortgage; they are dated January 1, 1912, and mature on the same date in 1952, interest being payable January and July. Further particulars will be found in the advertisement.

Addition to Reading Iron Co.'s Sales Force.

Allan M. Cullum has been appointed to the sales force of the Reading Iron Company, Reading, Pa., manufacturers of Genuine wrought-iron pipe, to help in rendering service to buyers of pipe in the state of New York and the eastern part of Pennsylvania. Mr. Cullum, a student at the Yale Scientific

Two New Smoot Bulletins.

Bulletins Nos. 16 and 17 have been issued by the Smoot Engineering Corporation, 136 Liberty street, New York city, relating to the Smoot system of combustion control. A complete description of the operation of control is presented. The master controller is the central point of the system, and all changes of steam pressure are transformed proportionately to air-loading pressures, operating regulators controlling fuel supply, air volume and draft. The results produced are returned to each regulator and balanced by the master. It is also shown that Smoot control is now in operation at some of the leading power plants, where operation of the boiler plant at continuous test-run efficiency is from a central point.

A Good Book From Bogalusa.

"The Mill Whistle," a quarterly periodical of the Great Southern Lumber Co., the Bogalusa Paper Co. and the Bogalusa Turpentine Co., Bogalusa, La., is a well-printed and attractive publication. It contains much valuable material relating to the several companies and among the articles in the current issue, dated February, 1925, is a contribution showing how work is being done to create new forests to take the place of those which have been cut. Another very good article is about the waste burner formerly used, but which is now shut down, the means having been found to profitably convert sawmill refuse into good paper stock. There are many illustrations.

"Norblo" Products Thoroughly Described.

Several interesting and finely-illustrated bulletins have been issued by the Northern Blower Company, Cleveland, Ohio, concerning the "Norblo" exhaust fans, dust removal equipment for cement mills, etc., filters, and sand blast rooms, besides the "No-Thru" metal insulated ovens for core baking, mold drying and japanning. All of these bulletins are comprehensive, giving full particulars about the various products described, and explaining how they are operated, as well as noting the efficient results obtained from their use.

School until two years ago, then entered the mills of the Reading Company for the purpose of gaining intimate knowledge of the manufacture of wrought-iron pipe, and he has thereby become equipped to deal with problems in connection with it. His headquarters will be at Reading.

Youngstown Sheet & Tube Report.

The annual report of the Youngstown Sheet & Tube Co., Youngstown, Ohio, and subsidiary companies, covering the year 1924, has been submitted to the stockholders by President J. A. Campbell, showing net profits of \$20,680,050.54 before providing for depreciation of plants and depletion of minerals, and net profits and income after all deductions as \$7,598,075.77. Surplus at the end of the year amounted to \$25,417,934.47 after payment of dividends amounting to \$5,441,104. The total assets of the company, according to the consolidated balance sheet, are \$259,607,822.33. Consolidated gross sales and receipts for the year were \$126,456,369.83 after deducting intercompany sales.

Trico Has New Line of Fuses.

The Trico Fuse Mfg. Co., Milwaukee, Wis., manufacturers of Trico powder-packed time-limit renewable fuses, recently announced a new line of fully approved non-renewable cartridge fuses. This new line, which is built in all standard sizes from 0 to 600 amp. and fully approved in both the 250 and 600 voltages, is known as the Trico "Kantark" non-renewable fuse. This company, it is remarked, is a pioneer in powder-packed time-limit renewable fuse construction, with the air cushion feature, which passed the underwriters' laboratory test. The company will send descriptive matter and price list on request.

Business Reorganized and Enlarged.

The Electric Supply & Construction Co., Inc., Statesville, N. C., a new concern, has taken over the business formerly conducted by the Electric Supply Co., this change being the result of reorganization and enlargement. L. J. Freel is president; P. M. Pittenger, vice-president and secretary, and E. Morrison, treasurer. Mr. Pittenger, who was recently connected with the electrical department of J. E. Serrine & Co., engineers, will have direct charge of all apparatus installations, industrial lighting and construction. The company will handle electrical work of any kind or scope.

Novo Skidders, Road Equipment, Etc.

The Novo Engine Co., Lansing, Mich., shows in a recent issue of "Novo Power" several interesting pictures of their road builders' equipment, lumbermen's log skidders, etc. One of the latter machines is represented when undergoing a demonstration in a North Carolina pine forest and another is shown at work at Schriever, La. It is stated that one of the reasons why this skidder works fast is the speed of the mechanical rehaul, or messenger line, as it is sometimes called. The rear drum handles this line, obviating the necessity of returning the tongs with horses or oxen.

Southern Special Machine Company.

The Southern Special Machine Company, 40 South Liberty street, Baltimore, Md., handling sewing machines and mill supplies, W. O. Darnell, manager, is covering all of the South with its different lines, including the "Dubbilstay" stitch Union button-sewer, which sews on a two-hole button with a four-hole stitch in the fabric, making, it is claimed, the four-hole button actually unnecessary, at a big saving to the needle trade, etc. Other machines handled include the Union button sewing, ticket sewing and snap fastener machines; the Osann big bobbin, fur sewing, fur beating, glove sewing, straw sewing, hat leather and special machines; Ballard electric cloth cutter, Rose label sewing machines, individual electric motor tables, Saxmayer parcel tying machines, Chandler plaiting machines, cloth slitting machines, hosiery staple binder and other special equipment for garment manufacturers.

Two New Directors of Cargill Company.

At the annual meeting of the Cargill Co., stationers, etc., Houston, Tex., the number of directors was increased from three to five and P. T. Pearce, sales manager, and J. B. Cadwell, secretary-treasurer, were elected as the new directors. The office of second vice-president was also created and Mr. Pearce was elected to it, but he also continues to have charge of sales and advertising. Both he and Mr. Cadwell have been with the firm for twenty years. All the old officers were elected as follows: Frank C. Clemens, president and general manager; Herman C. Malsch, first vice-president; John H. Johnson, store manager; M. G. Berkley, traffic manager.

Mark W. Potter Resumes Law Practice.

Mark W. Potter, who recently resigned from the Interstate Commerce Commission, has issued cards stating that he has resumed the practice of law, with offices in the Grand Central Terminal Building at No. 100 East Forty-fifth street, New York city, Room 3018.

Travel Department Established.

The Baltimore Commercial Bank, Baltimore, Md., has established a fully equipped travel department, which is a new feature of its modern banking service and which will be appreciated by depositors and others. A folder issued by the bank and bearing the caption "Travel" gives information concerning this new departure, with suggestions of sixteen different tours, the round-trip of each varying from \$61 to \$479.50.

Large Mill Order to General Electric Co.

The Carnegie Steel Company recently ordered from the General Electric Company for use in the McDonald Mills, Youngstown, Ohio, two 15,000 kilowatt turbine generators with direct connected exciters, five 6600-volt adjustable speed mill type induction motors, ranging from 1125 to 2200 horsepower, and two 2500 horsepower, 6600-volt constant speed mill type induction motors. The adjustable speed motors are to have Scherbius regulating equipment similar to that used in other mills of the same company.

Crocker-Wheeler Remote Starter.

Recognizing the trend toward the use of remote controlled automatic starters with squirrel cage induction motors, both for the purpose of relieving the motors and distributing systems from undue strains caused by the careless or improper use of hand-operated starters, and also to permit the location of the starter in any desired place, while the control station is placed in the most convenient location for the operator, the Crocker-Wheeler Co. of Ampere, N. J., has brought out a remote controller starter for use with two and three phase squirrel cage induction motors, and is making it in capacities as follows: $7\frac{1}{2}$ to 30 horsepower, 60 cycles, 220 volts; $7\frac{1}{2}$ to 60 horsepower, 60 cycles, 440 and 550 volts; $7\frac{1}{2}$ to 30 horsepower, 25 cycles, 220, 440 or 550 volts. The manufacturers say that this new starter is altogether unique in its comprehensive range of advantages. The company's Bulletin No. 219 illustrates and describes it.

Baltimore Awards Contract for \$600,000 School.

General contract has been formally awarded to the J. L. Robinson Construction Co. of Baltimore by the Baltimore Board of Awards for the erection of the proposed \$600,000 Canton school building at 1st street, Fair avenue and Hudson street. The structure will be three stories, about 200 by 300 feet, of brick and reinforced concrete construction, with wood and concrete floors and flat slab roof. It will be equipped with a vapor heating plant. Wyatt & Nolting, Baltimore, are the architects.

Contract for First Unit of Hotel.

Winston-Salem, N. C.—General contract has been awarded by Roaring Gap, Inc., Leonard Tufts, president, Pinehurst, to J. A. Gardner of Charlotte for the erection of the first unit of the proposed Roaring Gap Hotel. This unit will be of stone construction, three stories, with oak and pine floors, slate roof, and will cost about \$175,000. It will be equipped with a steam heating plant and elevator. Charles Barton Keene of Philadelphia is the architect.

Will Vote on \$1,150,000 Improvement Bonds.

Huntington, W. Va., March 14—[Special.]—It is proposed to submit a bond issue of \$1,150,000 for city improvements to voters of this city in the municipal election on May 5. Improvements planned include two fire stations, four bridges, one to span Guyan river; extensive work on sewers, and other municipal facilities.

\$1,000,000 Farm and Residential Development.

Cocoa, Fla.—Capitalized at \$2,000,000, the development of 40,000 acres of land near Cocoa for farming and residential purposes has been undertaken by the Cocoa-Rockledge Land Co., of which Harry Bourinot is president and B. H. Howard secretary. The cost of new improvements is estimated at \$1,000,000, and will include electrical system, septic tanks, three miles of water mains, 60 miles of roads and streets, dairy barns, poultry houses, warehouses and dwellings. Herbert M. Beary of Cocoa is general contractor; W. E. Sexton, Vero, Fla., construction engineer, and Mr. Sedgwick of Cocoa, landscape architect.

Du Pont Fibresilk Begins Second Plant.

Construction has begun on a second plant at Jacksonville, Tenn., of the Du Pont Fibresilk Co. of Buffalo, N. Y., which will duplicate in size and capacity, it is said, the two units already under construction, one of which has already been put in operation. The company wires the MANUFACTURERS RECORD that the additional capacity is an extension of the present work and that construction will be handled by the same contractors as now employed—the Du Pont Company of Wilmington, Del.

Bonds in the amount of \$1,500,000 for municipal improvements in Miami, Fla., have been validated and will be sold on March 24 by the city's department of finance, C. L. Huddleston, director.

To Show the Country—

What the South Has And What It Offers

People all over the country are studying the South. They are realizing that this section is offering magnificent opportunities for investment, development and settlement, and they are now in a receptive mood to be shown what the South has accomplished and what it offers.

To help in meeting this demand a group of Southern business men have organized and planned a great Exposition to be held next May in New York's finest exhibition building—the Grand Central Palace.

SOUTHERN EXPOSITION

Grand Central Palace, New York, May 11-23, 1925

Here will be gathered together exhibits by communities, cities, railroads, chambers of commerce, agricultural, industrial and commercial interests of the South—a great array of facts, information, samples of raw materials, agricultural products, specimens from mine and forest, manufactured articles of every kind and description that will show not only the amazing progress of the South, but the opportunities it presents for development and investment.

Are the interests of your community represented?

Reservations for space are now being received and it is highly important that applications be made promptly to secure the locations desired. Full information, together with rates, diagrams of floor plans and application blanks will be mailed on request.

**Southern Exposition, Exhibit Department
Grand Central Palace New York City**

\$1,160,000 School Bonds for St. Petersburg.

St. Petersburg, Fla.—A bond issue of \$1,160,000 has been voted by special school tax district No. 3 for the erection of school buildings in St. Petersburg, including a new high-school building to cost \$750,000; Lakewood school building, \$65,000; grade school building, \$65,000; grounds and improvements, \$220,000, and enlargement of buildings and equipment, \$60,000. W. B. Ittner of St. Louis and M. Leo Elliott of Tampa are architects for the buildings. Details will be in charge of the Pinellas County Board of Public Instruction, R. S. Blanton, secretary, Clearwater.

Paint Raw Materials Advancing.

The favorable outlook for the paint industry reflects cheerful prospects in the industries supplying raw materials for paint manufacture, according to a special report of the Statistics and Research Division of Irving Bank-Columbia Trust Company of New York. The report states that:

"Pig lead and zinc (spelter) prices have been moving upward almost constantly since July, 1924. The higher lead prices have been reflected in the advance of lead oxide prices, and firmer zinc has been bringing about a stronger undertone in lithopone and zinc oxide prices. White-lead-in-oil sold at 16.25 cents a pound wholesale on February 28, as against 15.75 cents two months earlier. Demand for zinc oxide has been strong, but producers have quoted the price unchanged at 7.875 cents a pound in car lots since January, 1924, for the American-process zinc oxide in bags. Owing to a shortage of zinc ore which is developing abroad, considerable strength in zinc prices seems probable this spring. Although the world production of lead in 1924 was 1,141,718 short tons, as compared with 989,393 short tons in 1923, the foreign demand

for lead continues to absorb all the available metal. Europe continues to import from us about twice the pre-war quantity of lead at about double the pre-war price.

"The trend of prices on such important raw materials as linseed oil and rosin has been upward; turpentine prices likewise show a rising tendency. By February 28 turpentine had reached 95 cents a gallon and linseed oil \$1.20. The increased prices of raw materials are being reflected in higher prices for paints.

"Linseed produces about one-third its bulk in oil and two-thirds in cake and meal. The cake and meal are the important products for European use, being taken extensively for cattle feed. In the United States, however, the oil is the principal product and the cake and meal by-products.

"The world production of flaxseed in 1924 amounted to 132,867,000 bushels, or about 5 per cent above the 1923 output. A record-breaking crop in the United States of 30,652,000 bushels, or over 13,000,000 bushels above our 1923 crop, is the chief cause of the increase. Statistics for 1924, with imports of only 16,589,000 bushels, show a shrinkage in our purchases of this seed, probably due to our own big crop, the largest for many years.

"About one-third of the annual linseed oil output of this country is consumed in the linoleum industry, and consequently linoleum manufacturers rank next to paint and varnish manufacturers in their interest in the trend of linseed oil prices. It is the opinion of the recognized authorities in the trade that 1925 will mark the greatest consumer demand in the history of the linoleum industry. This is a direct result of extensive publicity campaigns during the past year. As stocks are not heavy, production will probably be large, and the demand for oil will be of considerable proportions."

Facts That Count!

The facts given you by an automatic mechanical calculator of the work accomplished often shows you how space or equipment may be saved and labor conserved. These are facts that count!



The Productimeter

The Speedometer of Industry

In many places this little machine eliminates the biggest factor in overhead expense—waste—because it prevents under-runs and over-runs. Let us tell you how you can use it to advantage.

If you will tell us on what machine you want to use it, we will gladly send you a Productimeter of the correct type for that place, that you may try it out for a month. If you don't find it worth its keep, send it back and we'll cancel the charge.

DURANT Manufacturing Company

622 Buffum St. MILWAUKEE, WIS.

BLACK & COMPANY

(WILMER BLACK, C. P. A.)

CERTIFIED PUBLIC ACCOUNTANTS

OFFICES:

Suite 1208 GARRETT BUILDING - BALTIMORE, MD.
6 HAMILTON ROW - HAGERSTOWN, MD.

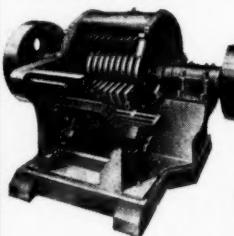
YOUNG & SELDEN COMPANY

MANUFACTURING

Bank and Commercial Stationers

BALTIMORE, MD.

"NO-NIFE" Hogs for Wood Refuse, Chips, Etc.



Reduce saw mill, veneer plant, box and furniture refuse for fuel. Also yellow pine chips for turpentine. No knives to break or require daily sharpening. Patented hammers cut by impact and only require redressing 2 or 3 times a year. Not damaged by iron.

Williams Patent Crusher & Pulverizer Co.
811 Montgomery St., St. Louis, Mo.
Chicago New York San Francisco
37 W. Van Buren St. 15 Park Row 415 5th St.

Williams
PATENT CRUSHERS GRINDERS SHREDDERS

\$1,396,000

(Balance of amount issued to retire Birmingham Iron Co. 5% Bonds, due April 1926)

Woodward Iron Company

First and Consolidated Mortgage 5% Sinking Fund Gold Bonds

(NOW FIRST MORTGAGE)

Dated January 1, 1912

Due January 1, 1952

Interest payable January 1 and July 1 at the office of the Trustee. Redeemable as a whole or in part on any interest date at 105 and interest, except that when called for the Sinking Fund the price is par and interest. Coupon bonds in denomination of \$1,000, registerable as to principal only.

Authorized \$25,000,000

Outstanding \$12,883,398

In addition to the bonds shown as outstanding \$4,733,000 are held in the Company's treasury and \$883,602 are in the Sinking Fund, and \$5,500,000 are reserved for future additions and improvements.

TRUSTEE, THE FARMERS' LOAN AND TRUST COMPANY, NEW YORK

From a letter of Mr. A. H. Woodward, Chairman of the Board, we have summarized as follows:

Company: Woodward Iron Company, the business of which dates back to 1882, is one of the lowest cost producers of pig iron in the United States. It enjoys this position chiefly because of the close proximity of its extensive holdings of coal and high grade ore lands to its furnaces and the advantages afforded by the ownership of its own railroad. Eighty per cent of the Company's product is now marketed in the Birmingham district, in which it operates, and this proportion is expected to increase with the rapidly growing demand for pig iron in that territory.

Properties: Company owns five furnaces and 230 by-product coke ovens situated in Woodward and Birmingham, Ala. Annual capacity 500,000 tons of pig iron. Company's mines, located within an average distance of five miles of its furnaces, contain over 100,000,000 tons both of proven coal and of proven iron ore, sufficient to last more than twice the remaining life of these bonds. Necessary coal and ore for the Woodward furnaces are carried to the furnaces on Company's own railroad.

Security: \$2,000,000 Birmingham Iron Co. 5% Bonds, due April 1, 1926, having been retired before maturity by this issue, the First and Consolidated Mortgage Bonds are now secured by first mortgage on the entire property of the Company. Depreciated value of the fixed assets of the Company as of December 31, 1924, was more than \$28,000,000, compared with the total mortgage debt outstanding in the hands of the public of less than \$13,000,000.

Earnings: For 9 years ended December 31, 1924, net earnings after depreciation, but before taxes, averaged 2.37 times interest charges on the mortgage debt now outstanding. For 1924, net earnings were 2.13 times such charges. Since 1912 \$8,733,000 has been spent on additions to plant and property without any increase in the capitalization outstanding in the hands of the public.

Sinking Fund: Semi-annual sinking fund, equal to 3 cents per ton of coal and ore mined with a minimum payment of not less than $\frac{1}{4}$ of 1% of all bonds issued, retires bonds by purchase or call at not exceeding par. Minimum provision is to be increased in 1940 so as to retire all bonds by maturity.

Price 86 and accrued interest, to yield 6.05%

Clark, Dodge & Co.

ESTABLISHED 1847

51 Wall Street, New York
790 Broad St., Newark, N. J.



Special to The New York Times.

WASHINGTON, Jan. 18.—A special survey of the building and general construction prospects for 1925 has just been completed by the Employment Service of the Department of Labor, and a forecast that activity will equal, and in some sections exceed, that in 1924 was made in a bulletin issued today.

The report, which was issued by Francis I. Jones, Director General of the Employment Service, takes up all districts from coast to coast and there is a striking unanimity of opinion expressed by local directors of the survey that residential and commercial construction will continue on a satisfactory scale, which will keep the building trades employed. None of the reports sent in indicate that there

A Good Foundation to Invest On— at 6½% and 7%

WHEN building conditions are sound, all you need to inquire about any real estate bond is: will it stand analysis like other securities? Is it issued by a good House?

The Four Distinguishing Marks of Miller First Mortgage Bonds supply the information on which you can form your own opinion of Safety, Validity, Type of Security and Interest Rate, just as you would if you were buying a railroad or industrial bond. Mail the coupon for folder B-2703.

G. L. MILLER & CO.

INCORPORATED

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Please send Folder B-2703 and circular describing a 7% issue of

MILLER FIRST MORTGAGE BONDS

In Which No Investor Ever Lost a Dollar

Name

Address

City and State.....

WE extend the facilities of our organization to those desiring information or reports on companies with which we are identified.

Electric Bond and Share Company

(Incorporated in 1905)

Paid-up Capital and Surplus, \$65,000,000

71 Broadway New York

Maybe This Bank Is Different From Others

Its policy is pleasing 16,000 customers who are its friends. Address us in regard to your financial requirements.

BALTIMORE COMMERCIAL BANK

GWYNN CROWTHER, President

Pratt Street and Market Place, Baltimore, Md.

Capital and Surplus \$1,000,000.00 Member Federal Reserve System

MARYLAND TRUST COMPANY

BALTIMORE

Transacts a General Trust and Banking Business

Correspondence and interviews invited

CAPITAL, \$1,000,000

WE BUY MUNICIPAL BONDS

We are interested in the purchase of Southern Municipalities including road, school, county, drainage and levee bonds.

M. W. ELKINS & CO.
Southern Trust Bldg. Little Rock, Ark.

We Buy Bonds

City, County, School and Road from Municipalities and Contractors

WRITE
THE PROVIDENT SAVINGS BANK & TRUST CO.
CINCINNATI OHIO

Municipal Bonds

Inquiries invited from municipalities and contractors. We buy city, county, district, school, road, lighting, water works and other municipal issues.

A.C. ALLYN AND COMPANY

71 W. Monroe St., Chicago, Ill.

New York Milwaukee Minneapolis Boston

How About Your Credit Information?

RELIABLE credit information often means the difference between safety in business dealings and uncertainty—perhaps losses.

We maintain a highly organized Credit Department, capable of obtaining dependable credit information on domestic or foreign concerns.

Let us supplement the information of your own Credit Department on your more important customers or prospects. We shall be glad to have you give us a trial.



Bank of New York & Trust Company

Capital, Surplus and Undivided Profits
over \$16,000,000

NEW YORK, N. Y.

REAL ESTATE MORTGAGE BONDS

We are interested in the purchase of first mortgage bond issues covering business property, hotels, apartment houses, etc., in amounts of \$50,000 and upwards. Entire issues city, county and district bonds purchased.

MARX AND CO.

Brown-Marx Bldg.

Birmingham, Ala.

RAILROAD, PUBLIC UTILITY and INDUSTRIAL BONDS

Entire Issues Bought

ROGER B. WILLIAMS, Jr. & CO.

Investments Bonds

67 Wall Street

New York

LOANS TO STATES, COUNTIES AND CITIES Municipal Bonds

EYER & CO.

Established 1907

Correspondence Invited

57 William Street

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Delaware Corporations
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J. Ernest Smith, President and General Counsel
Chas. Warner Smith, Vice-President
Harry W. Davis, Secretary and Treasurer.

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Architects, Contractors,
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Do your clients need financing? We have five million dollars to lend—

We lend on Office Buildings, Commercial Property, Religious Institutions, Hospitals and Sanitariums, Hotel and Apartment Buildings, Timberlands, Farmlands.

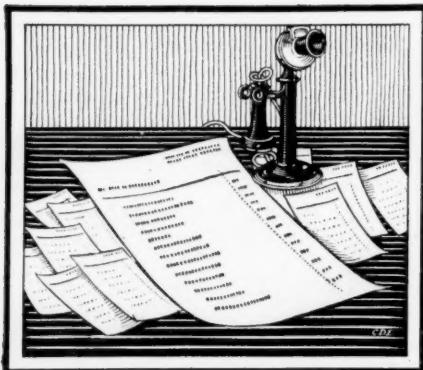
Best possible terms. Full particulars upon request.

Mortgage & Securities Company

Canal and Camp Streets - - NEW ORLEANS
Fourth and Locust Streets - - - ST. LOUIS

"I'M Glad

my telephone bill is so big!"



phone," he said, "we simply could not handle our present business."

Nowhere, outside America, is the telephone used as such a constructive business economy. American homes and businesses use 63 per cent of the telephones of the world, and the number is increasing at the rate of 3000 each working day. The business houses of Europe are agitating in their daily press and in international conference for a long distance telephone system like America's.

Are you and your concern making full use of telephone economy? In any final analysis, the telephone in business costs nothing. The total loss of the expense of

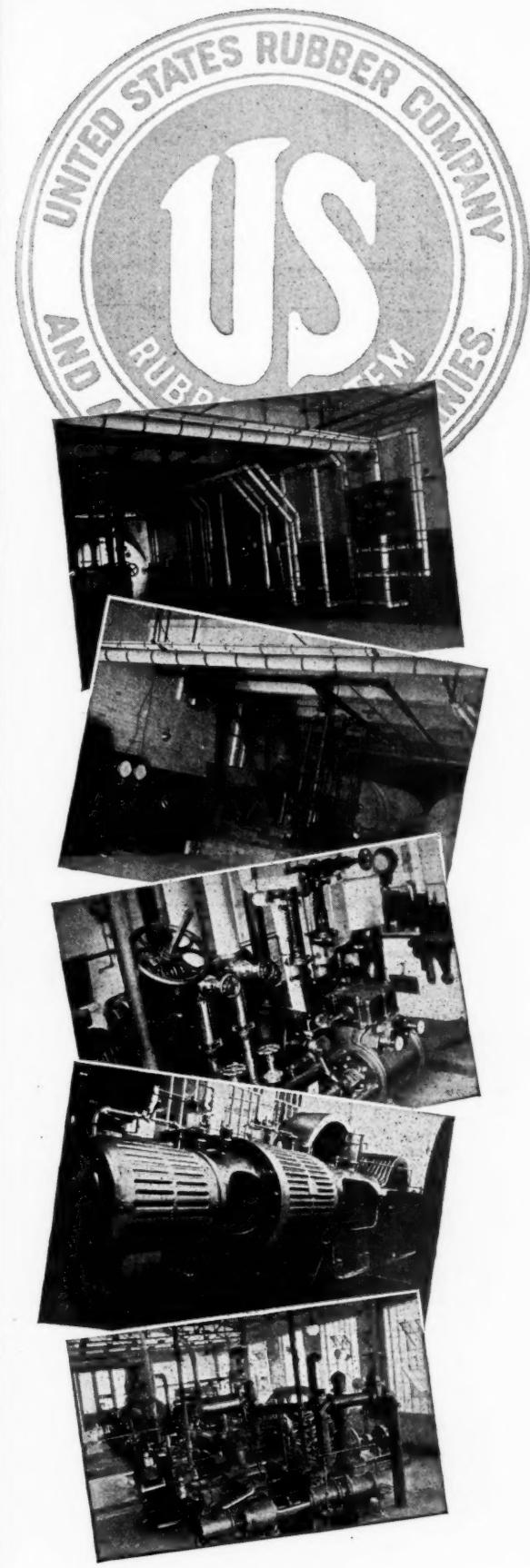
BANKER who told us he was glad one bill was so big. He remembers days when it was smaller, and he blames the larger use of the telephone for decreases in traveling expense, in-and definitely measurable additions. "Without the long distance tele-

a trip may be saved by telephoning in advance. In thousands of cases, without the expenses and delay of travel, the contact is made and the deal closed by a call over the long distance telephone.

Your local Bell company, upon call, will gladly have its Commercial Department advise your concern how to use the telephone for greater profit. But why wait for a special survey? You know what the telephone now does for you locally. It will do the same over hundreds and thousands of miles. Long Distance is waiting for your call. *Number, please?*

BELL LONG DISTANCE SERVICE





*"The Right Packing
in the Right Place"*

No two engineers agree on packings

No two engineers, relying on their own personal experience, would agree at all points on the best packings for any plant. What they would agree on, without any doubt, is that they must have "the right packing in the right place."

The old-time rubber sheet and the flax rod packing, no matter how well made, cannot be expected to meet many of the requirements of the modern power plant. Neither is there any up-to-the-minute cure-all which will satisfy properly more than a limited range of conditions. In dealing with superheated steam and ammonia, air, hot oils, tar and asphaltum, a number of packings must be used, each of which has been designed and proved out for its own sort of work.

The brand on the packing you use does you little good by itself. It is the knowledge of when and where to use it right that makes a packing worth something to you.

The Survival of the Fittest

The United States Rubber Company offers to packing-users a service of broad knowledge. It has been able to draw on the experience, not of one, but of many makers of packings, each backed by years of success. From the various lines made by its subsidiary companies, it has developed a single line of packings in which the one best style for each purpose has been retained, and the other styles discontinued.

The salesman of "U. S." packings has no temptation to recommend any style for other work than that to which it is best suited. There is a proper style for every purpose, for the present line represents the survival of the fittest among a needlessly large number.

When you buy "U. S." packings, you buy not merely the "U. S." brand. You buy at the same time "the right packing for the right place."

United States Rubber Company

1790 Broadway

New York City

Branches in Every Industrial Center

Value of America's Horse Sense.

Industrial Board,
Chattanooga Chamber of Commerce.
Chattanooga, Tenn., February 24.

Editor Manufacturers Record:

Nothing appeals to me more strongly than to see abominably bad advice spurned, so that your article on Sir George Paish appearing in the MANUFACTURERS RECORD of February 12 meets every requirement of my make-up.

England has always wanted American trade on England's terms, and had this country taken England's advice as to tariff for only 20 years prior to the World War "Sir Douglas Haig Stonewall's" appeal would have fallen on a sympathetic but helpless nation. We would have been powerless to help England, almost powerless to carry on the fight against Germany when brought to our own door, as it would have been.

In Sir George's statement to you I think he has placed himself in the attitude of giving advice that he would not himself take if his nationality were reversed.

We are constantly patting ourselves on the back on our wonderful natural resources. I think the most wonderful thing we have is American horse sense, that has kept us in the middle of the road instead of following every little red worm track that leads from the main highway of our national life. And for this sense of proportion we are indebted to our Maker, who has given us eyes to see and brains to judge.

CHAS. W. HOWARD.

Tennessee Invites Bids on 75 Miles.

Nashville, Tenn.—Bids will be received until March 27 by the Tennessee Department of Highways and Public Works, at its office in this city, for road work to cover more than

75 miles. Construction will embrace about 15 miles of concrete, 41 miles of grade and drainage, 10 miles of grade and drainage and watergound macadam surface, 9 miles of grade and drainage and gravel surface, and about one mile of crushed stone base.

Will Vote on \$175,000 Bond Issue.

Pineville, Ky.—An election on a bond issue of \$175,000 has been called for April 11 by the Wyoming County Court for completing roads in certain sections of the county, the principal one being from Pineville to the McDowell county line. It is expected that the McDowell County Court will also approve the construction of a road to join the proposed Wyoming county road and extend up Brown's Creek.

Water-works Improvements to Cost \$300,000.

Chattanooga, Tenn.—Improvements to its water-works to cost about \$300,000 have been started by the City Water Company here. New facilities will include six 1,000,000-gallon concrete filters, one 2,000,000-gallon concrete settling basin and one 15,000,000-gallon turbo-centrifugal pump. The American Construction & Securities Co., New York, is contractor and engineer.

Ten-Story Office Building for Lakeland.

Lakeland, Fla.—Plans have been prepared by Roy N. Benjamin, Jacksonville, for a 10-story office building to be erected in this city by E. J. Sparks of Talley & Sparks, Lakeland and Jacksonville. The ground floor will be in the nature of an arcade, construction of the first two floors to be of North Carolina marble. The building is expected to be ready for occupancy by next January.

— PROPOSALS —

BOND ISSUES

BUILDINGS

PAVING

GOOD ROADS

Bids close April 30, 1925.

Treasury Department, Bureau of Engraving and Printing, Washington, D. C., March 17, 1925. Sealed proposals are invited to furnish this Bureau with Postage Stamp Paper and Internal Revenue Paper during the fiscal year beginning July 1, 1925. Contracts will be made only with actual manufacturers of the paper. Proposals to be received not later than 2 P. M. Thursday, April 30, 1925. Blank forms with specifications for proposals and further information will be furnished on application to A. W. HALL, Director.

Bids close April 13, 1925.

\$109,000 5 1/2% Road Bonds

Gonzales, Tex.

Sealed proposals will be received by the County Judge of Gonzales, Texas, until 2 P. M. April 13, 1925, for the purchase of \$109,000 Road District No. 5 Bonds. Denomination \$1000 each, payable serially at Seaboard National Bank, New York, N. Y. Right to reject bids reserved. For particulars address

J. C. ROMBERG, County Judge.

Bids close April 6, 1925.

\$250,000 5% School Bonds

Mobile, Ala.

The Board of Revenue and Road Commissioners of Mobile County, Alabama, respectfully calls for bids for \$250,000 in 5 per cent twenty-year Mobile County Bonds, issued for the purpose of constructing a Public High School within the County of Mobile; bids to be opened Monday, April 6, 1925, at 10:30 A. M. at the Courthouse, Mobile, Alabama. For further information address Thos. B. Allman, Clerk of Board of Revenue and Road Commissioners, Mobile, Alabama.

ALBERT S. TOWLE, Chairman.

RATE: 35 cents per line per insertion

PUBLICATION DAY: Thursday.

FORMS CLOSE 4 P. M., Monday.

DAY LETTER: When too late to send copy by mail to reach us by 4 P. M., Monday, forward by day letter.

THE DAILY BULLETIN OF THE MANUFACTURERS RECORD: Published every business day; gives information about the industrial, commercial and financial activities of the South and Southwest.

The Daily Bulletin can be used to advantage when copy cannot reach us in time for publication in the Manufacturers Record before bids are to be opened, or when daily publications are necessary to meet legal requirements. The same rate applies—35 cents per line per insertion.

Bids close April 10, 1925.

U. S. ENGINEER OFFICE, HUNTINGTON, W. VA. Sealed proposals will be received here until 11 A. M. April 10, 1925, and then opened, for constructing five dwellings at Dam No. 32, Ohio River. Further information on application.

Bids close March 23, 1925.

\$45,000 5% School Bonds

Darlington, S. C.

Sealed bids will be received by the School District of the Town of Darlington, School District No. 2 of Darlington County, in the State of South Carolina, at the Bank of Darlington, in the Town of Darlington, S. C., at 12 o'clock M. on the 23rd day of March, A. D. 1925, for the purchase of Forty-five Thousand Dollars (\$45,000) of school bonds of said district, to be dated the first day of April, 1925, and to mature twenty (20) years from the date of said

bonds; said bonds to bear interest at the rate of five per cent (5%) per annum, payable semi-annually on the first day of April and October of each year, both principal and interest to be payable at the National Bank of Commerce in New York, in the City of New York and State of New York. The bonds, to be furnished by purchaser, will be ready for delivery as soon after sale as they can be lithographed.

Each bid must be accompanied by a certified check in the sum of One Thousand Dollars (\$1000), payable to the order of Bright Williamson, Chairman of the Board, as security for the performance of said bid, or as liquidated damages upon the failure of the successful bidder to accept and pay for said bonds.

The right is reserved to reject any and all bids.

THE SCHOOL DISTRICT OF THE TOWN OF DARLINGTON.
BRIGHT WILLIAMSON, Chairman.

Bids close April 7, 1925.

\$60,000 5 1/2% Bridge Bonds

Georgetown, S. C.

The County Board of Commissioners of Georgetown County, Georgetown, S. C., invite bids up to twelve (12) o'clock noon April 7, 1925, for \$60,000 Georgetown County, S. C., Sampit Bridge Bonds, dated April 1, 1925, bearing interest not exceeding Five and One-half (5 1/2%) per cent per annum, payable semi-annually, maturing serially for twenty (20) years, with approximate average maturity of thirteen and three-quarters (13 3/4) years.

The purchaser to pay for legal opinion and printing of bonds.

The Board of Commissioners reserves the right to reject any or all bids.

W. A. CAMPBELL, Clerk.

Bids close April 14, 1925.

\$125,000 5% School Bonds

The City Commission of the City of Waycross will receive sealed bids until 8 o'clock P. M. April 14, 1925, for \$125,000 City of Waycross School Bonds, bearing 5% interest. For descriptions of the bonds, financial statement and information respecting Waycross address

JEROME CRAWLEY, City Attorney,
Waycross, Georgia.

Bids close March 28, 1925.

\$20,000 6% School Bonds

Hampton, S. C.

Sealed bids will be received by the Hampton School District No. 15 of Hampton County, State of South Carolina, at the office of the undersigned, attorney for said School District, Hampton, S. C., on the 28th day of March, 1925, at 12 o'clock M., for the purchase of Twenty Thousand (\$20,000) Dollars of serial coupon school bonds of said district, to be dated the 1st day of April, 1925, and last bond to mature twenty (20) years from the date of said bonds; said bonds to bear interest at the rate of six per cent per annum, both principal and interest to be payable at such place as purchaser shall name.

Each bid must be accompanied by a certified check in the sum of five hundred dollars, payable to the order of the undersigned as attorney, as security for the performance of said bid, or as liquidated damages upon the successful bidder failing to accept and pay for said bonds.

RANDOLPH MURDAUGH,
Attorney for Hampton School District
No. 15.

Bids close March 30, 1925.

\$80,000 5% Water-Works Bonds

Fayetteville, Tenn.

BY VIRTUE OF AN ORDER of the Board of Mayor and Aldermen of the Town of Fayetteville the undersigned will receive sealed bids at the office of the Chief of Police in the Town of Fayetteville, Tennessee, up to 1 o'clock Monday, March 30, 1925, for EIGHTY THOUSAND DOLLARS (\$80,000) of five per cent coupon water works bonds of the Town of Fayetteville, Tennessee. Bonds will bear date as of June 1, 1923, shall be due and payable thirty years after date, with the option of prior redemption 15 years after date; interest is payable semi-annually on June 1 and December 1 at the Chemical National Bank in New York City, N. Y. Said bonds are tax free in Tennessee. The proceeds of said bonds are to be used in extending the water system of the Town of Fayetteville. The right to reject any and all bids is reserved. A certified check for \$1000 will be required to accompany each bid.

This March 11, 1925.

M. W. THORNTON, Mayor.
HIRAM HIGGINS, Clerk.

Bids close April 20, 1925.

\$110,000 6% Water-Works Extension Bonds

Okeechobee, Fla.

Sealed bids addressed to the Mayor and City Council of Okeechobee, Okeechobee, Florida, will be received until 2 P. M. April 20, 1925, at Okeechobee, Florida, for the sale and purchase of Water Works Extension Bonds of the City of Okeechobee, Florida, in the aggregate sum of \$110,000, bearing interest at the rate of six per cent (6%), payable semi-annually, said bonds to be in denominations of \$1000 each. Said bonds will be dated March 1, 1925, and will be due and payable as follows:

\$11,000 on March 1, 1945, and \$11,000 on March 1 of each and every year thereafter up to and including March 1, 1954.

These bonds will be issued under and in accordance with Chapter 8318, Laws of Florida, Acts of 1919, and Chapter 9855, Laws of Florida, Acts of 1923, and for the purpose of extending and expanding the Water System of the City of Okeechobee, Florida, and of paying the cost thereof.

Approving legal opinion of Caldwell and Raymond of New York City will be furnished without charge.

The right is reserved to reject any or all bids.

T. W. CONELY, JR., Mayor.
R. F. FLETCHER, Clerk.
(Corporate Seal)

Bids close April 1, 1925.

\$870,000 5% Bonds

Sealed proposals will be received by the Board of County Commissioners, in care of the undersigned, in Miami, Florida, until 2 o'clock P. M. April 1, 1925, for the purchase of all or any part of the following described bonds of Dade County, Florida, each dated October 1, 1924, each in denominations of \$1000, bearing interest at five per cent per annum, payable semi-annually on the first days of April and October of each year, the principal being payable on the first day of October in the years hereinafter indicated, both principal and interest being payable at the office of the United States Mortgage & Trust Company in the City and State of New York.

\$300,000 Causeway Bridge Bonds, maturing as follows:

\$3000 annually A. D. 1930 to 1939, both inclusive.

\$4000 annually A. D. 1940 to 1944, both inclusive.

\$5000 annually A. D. 1945 to 1954, both inclusive.

\$10,000 annually A. D. 1955 to 1974, both inclusive.

\$100,000 West Dixie Highway Bonds, maturing as follows:

\$2000 annually A. D. 1930 to 1931, both inclusive.

\$1000 annually A. D. 1932 to 1939, both inclusive.

\$2000 annually A. D. 1940 to 1942, both inclusive.

\$1000 annually A. D. 1943 to 1944, both inclusive.

\$2000 annually A. D. 1945 to 1957, both inclusive.

\$3000 annually A. D. 1958 to 1971, both inclusive.

\$4000 annually A. D. 1972 to 1974, both inclusive.

\$160,000 Southwest Eighth Street, West, Highway Bonds, maturing as follows:

\$2000 annually A. D. 1930 to 1944, both inclusive.

\$3000 annually A. D. 1945 to 1954, both inclusive.

\$5000 annually A. D. 1955 to 1974, both inclusive.

\$125,000 Tamiami Trail Highway Bonds, maturing as follows:

\$1000 annually A. D. 1930 to 1939, both inclusive.

\$2000 annually A. D. 1940 to 1954, both inclusive.

\$4000 annually A. D. 1955 to 1969, both inclusive.

\$5000 annually A. D. 1970 to 1974, both inclusive.

\$185,000 General Highway County Bonds, maturing as follows:

\$1000 annually A. D. 1930 to 1939, both inclusive.

\$2000 annually A. D. 1940 to 1944, both inclusive.

\$3000 annually A. D. 1945 to 1954, both inclusive.

\$6000 annually A. D. 1955 to 1959, both inclusive.

\$7000 annually A. D. 1960 to 1974, both inclusive.

The purchaser will be furnished with the approving legal opinion of John C. Thomson, Esq., of New York City.

The foregoing bonds are general obligations of Dade County, Florida, payable from an unlimited tax upon all taxable property, real and personal, in said county. Proposals for bonds should be on a blank form, which will be furnished by the undersigned upon request, and must be enclosed in an envelope marked "Proposals for Bonds," and must be accompanied by a bond payable to the Board of County Commissioners of Dade County, Florida, with sureties, in an amount equal to 2 per cent of the face value of the bonds for which bid is submitted, or by certified check in like amount drawn upon a bank or trust company doing business in Florida, or upon a national bank of any place, which certified check will be forfeited to the county as liquidated damage in event the bidder fails or refuses to accept and pay for said bonds when tendered. The delivery of bonds can be made on or about April 15, 1925, in Miami or New York City, elsewhere at purchaser's expense.

The right to reject any and all bids is reserved by said Board of County Commissioners.

BOARD OF COUNTY COMMISSIONERS,
Miami, Florida.

GEO. F. HOLLY, Clerk.

Bids close March 24, 1925.

Highway Construction

DEPARTMENT OF PUBLIC WORKS.

STATE OF MARYLAND.

STATE ROADS COMMISSION.

NOTICE TO CONTRACTORS.

Baltimore, Md.

Sealed proposals for building eight sections of State Highway, as follows:

Anne Arundel County, Cont. AA-42—One section of State Highway along Defense Highway from the end of Cont. AA-39 toward Priest Bridge for a distance of 2.5 miles. (Concrete.)

Harford County, Cont. H-44—One section of State Highway from the end of Cont. H-32 toward Federal Hill for a distance of 1.0 mile. (Concrete.)

Queen Anne's County, Cont. Q-22—One section of State Highway from Sudlersville toward Hackett's Corner and from Pondtown toward Dudley's Corner for a distance of 2.5 miles. (Concrete.)

Caroline County, Cont. Co-37—One section of State Highway from Denton to Long's Corner, a distance of 3.5 miles. (Concrete.)

Somerset County, Cont. S-22—One section of State Highway from end of Cont. S-19 toward Deal's Island for a distance of 1.0 mile. (Concrete.)

Worcester County, Cont. Wo-30—One section of State Highway from end of Cont. Wo-32 toward Salisbury for a distance of 1.5 miles. (Concrete.)

Wicomico County, Cont. WI-29—One section of State Highway from end of Cont. WI-25 toward Nanticoke for a distance of 1.59 miles. (Concrete.)

Frederick County, Cont. F-69—One section of State Highway from end of Cont. F-62 to the Carroll County Line, a distance of 2.0 miles. (Concrete.)

will be received by the State Roads Commission at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M. on the 24th day of March, 1925, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which, with specifications and plans, will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond and comply with the Acts of the General Assembly of Maryland respecting contracts.

The Commission reserves the right to reject any and all bids.

By order of the State Roads Commission this 6th day of March, 1925.

JOHN N. MACKALL, Chairman.

L. H. STEUART, Secretary.

Bids close April 15, 1925.

Water Works and Sewerage

Apex, N. C.

Sealed proposals will be received by the Mayor and Board of Town Commissioners of the Town of Apex, N. C., at the Town Hall in Apex, N. C., until noon April 15, 1925, for Water Works and Sewerage.

The work will consist of:

Brick and Concrete Pumping Station and complete Filter Plant.

Steel Wash Water Tank and Tower.

Steel Storage Tank and Tower.

Cast-iron Pipe Line.

2200-Volt Transmission Line.

Cast-iron Water Mains.

Motor-driven Centrifugal Pumps and Accessories.

Sewer Extensions, about three miles.

Proposals must be marked "Proposal for Water Works and Sewerage."

All bids must be upon blank forms provided in "Proposal, Specifications and Contract."

Each bid must be accompanied by a certified check for not less than five per cent of the amount of the bid as evidence of good faith.

Plans and specifications will be on file at the Clerk's office in Apex and at the office of the Engineer in Durham, N. C., and copies of the specifications, form of proposal, etc., will be mailed upon application to the Engineer at Durham, N. C., accompanied by payment of Ten Dollars (\$10) for each set of plans and specifications, which will be refunded to those who submit bona fide bids.

The right is reserved to reject any or all bids.

E. G. SINCLAIR, Mayor.

S. A. BRANCH, Clerk.

GILBERT C. WHITE CO., Engineer,

Durham, N. C.

PROPOSALS

Manufacturers Record

Bids close April 14, 1925.

Water Supply System

Spartanburg, S. C.

Sealed proposals for furnishing materials and constructing a new Water Supply will be received by the Commissioners of Public Works for the City of Spartanburg, S. C., at the Water Works office until 12 o'clock noon Tuesday, April 14, 1925.

The work will consist of a Reinforced Concrete Dam, a Power House, with Generators, Turbines and Pumping Equipment; a complete Water-Purification Plant of 6 M. G. D. capacity, a 24-inch Force Main about three (3) miles long, a three (3) million gallon Covered Reinforced Concrete Reservoir, a Steel Standpipe and approximately eight (8) miles of Gravity Supply Main.

Each proposal must be accompanied by a certified check, payable to the Commissioners of Public Works, for City of Spartanburg, S. C., in an amount equal to five (5%) per cent of the bid as a guarantee that the contract will be entered into if awarded. A bond of one hundred (100%) per cent of the contract price will be required. Payments will be made in cash on monthly estimates.

Plans and specifications are on file at the office of the Superintendent of Water Works at Spartanburg, S. C., and with P. H. Norcross, Consulting Engineer, 1404 Candler Building, Atlanta, Ga.

Bidders may obtain copies of the specifications from the Consulting Engineer by enclosing certified check for twenty-five (\$25) dollars, payable to the Commissioners of Public Works. Blueprints may be had at the cost of printing. If plans, specifications and blueprints are returned within thirty days after opening bids, the check for twenty-five (\$25) dollars will be returned.

D. W. HENDRIX, Chairman;

W. R. DILLINGHAM,

C. L. CANNON,

Commissioners of Public Works.

R. B. SIMMS, Superintendent Water Works.
P. H. NORCROSS, Consulting Engineer,
Atlanta, Ga.

Bids close March 30, 1925.

Stantonsburg Street Sanitary Sewer Outfall

Wilson, N. C.

Sealed bids will be received by the Mayor and Board of Commissioners of the Town of Wilson, N. C., for the above work until 4 P. M. of March 30, 1925, when they will be opened and publicly read.

The work will consist of furnishing and laying complete, as specified in the General Specifications and Special Specifications, a Sanitary Sewer composed of approximately the following quantities:

9500 cu. yd. Trench Excavation at different depths.

2000 lin. ft. 12-inch Clay, Shale or Fire-clay Pipe.

2600 lin. ft. 15-inch Clay, Shale or Fire-clay Pipe.

200 lin. ft. 12-inch Class "A" Cast-iron Pipe.

150 lin. ft. 15-inch Class "A" Cast-iron Pipe.

20 Manholes, and other necessary appurtenances.

Proposals must be made upon the blank forms furnished by the Engineer, and must be sealed and properly addressed to the Town Clerk of the Town of Wilson, N. C.

Each bid must be accompanied by a certified check or bidder's bond in the amount of five (5%) per cent of the amount bid as evidence of good faith on the part of the bidder.

Plans, Specifications, Contract Forms, etc., may be obtained from the Engineer upon deposit of Ten (\$10.00) dollars, which will be returned to bona fide bidders.

In case no bid is made Plans, Specifications, etc., must be returned to the Engineer before hour of letting in good condition, after which no refund will be made.

Plans and Specifications will be ready for the mails on or about March 16.

The right is reserved to reject any or all bids or to accept any which may seem to be in the best interests of the Town of Wilson, North Carolina.

SILAS R. LUCAS, Mayor.

THEO. A. HINNANT, Clerk.

R. D. GLADDING, Consulting Engineer,
Wilson, North Carolina.

Bids close March 27, 1925.

Sanitary Sewers and Storm Drains

Roanoke, Va.

Sealed proposals addressed to W. P. Hunter, City Manager, will be received until noon Friday, March 27, 1925, for the construction of the following sanitary sewers and storm drains:

15,300 lin. ft. 6-inch Terra Cotta Sanitary Sewer.

37,500 lin. ft. 8-inch Terra Cotta Sanitary Sewer.

6500 lin. ft. 10-inch Terra Cotta Sanitary Sewer.

1100 lin. ft. 12-inch Terra Cotta Sanitary Sewer.

3700 lin. ft. 12-inch Terra Cotta or Concrete Storm Drain.

600 lin. ft. 15-inch Terra Cotta or Concrete Storm Drain.

600 lin. ft. 18-inch Terra Cotta or Concrete Storm Drain.

4800 lin. ft. 24-inch Terra Cotta or Concrete Storm Drain.

1000 lin. ft. 30-inch Terra Cotta or Concrete Storm Drain.

1300 lin. ft. 36-inch Terra Cotta or Concrete Storm Drain.

10,300 lin. ft. 3 ft. x 3 ft. to 5 ft. x 8 ft. Concrete Box Drain.

Bids must be made out on blanks furnished by the City Engineer and must be accompanied by a certified check of 5% of the amount of each bid and a bond of 50% of the contract price will be required of the successful bidder to guarantee the faithful performance of the contract.

Profiles and plans on file in the City Engineer's office. Specifications and proposals may be obtained from the office of the City Engineer on and after March 16, 1925.

The right is reserved to reject any or all bids and to award the contract as may be deemed to the best interest of the city.

W. P. HUNTER, City Manager.

Bids close March 26, 1925.

Sewers

DEPARTMENT OF PUBLIC IMPROVEMENTS.

SUB-DEPARTMENT OF HIGHWAYS ENGINEER.

Baltimore, Md., March 11, 1925.

Sealed bids or proposals in duplicate, addressed to the Board of Awards, in care of the City Register, City Hall, Baltimore, Md., for building storm drains and sanitary sewers in Sewer Districts G-14 and J-1 in the City of Baltimore, as embraced in Storm Water Contract No. 81, and shown on plans on file in the office of the Highways Engineer, will be received at the office of the City Register, City Hall, Baltimore, Md., until Thursday, March 26, 1925, at 11 o'clock A. M., at which time they will be publicly opened by the Board of Awards and read.

Each bid must be accompanied by a certified check of the bidder on a clearing-house bank, drawn to the order of the Mayor and City Council of Baltimore, in the amount of Four Thousand Dollars (\$4000).

Bond in the amount of the contract price will be required of the successful bidder.

The Board of Awards reserves the right to reject any or all bids.

This work comprises approximately:

3595 lin. ft. brick and concrete monolithic circular section drain, 42 in. to 60 in. inside diameter, of which 650 lin. ft. is to be constructed in tunnel.

1845 lin. ft. reinforced concrete pipe drain, 24 in. to 48 in. inside diameter.

6290 lin. ft. vitrified pipe sewers and drains 6 in. to 24 in. inside diameter.

440 lin. ft. 7 ft. 0 in. x 4 ft. 0 in. brick and concrete box drain.

220 lin. ft. 6 ft. 0 in. x 3 ft. 6 in. brick and concrete box drain.

Plans, specifications and bidding form may be obtained at the office of the Highways Engineer, Room 10, City Hall, Baltimore, Md., upon deposit of Five Dollars (\$5.00), which deposit will be refunded only if the plans and general specifications, in case a bid is submitted, or the plans, general specifications and special specifications in case no bid is submitted, are returned to the office of the Highways Engineer in good condition on or before the time set for opening the bids.

BERNARD L. CROZIER,
Highways Engineer.
STEUART PURCELL,
Chief Engineer.

Approved:

HOWARD W. JACKSON,
President Board of Awards.
GEORGE E. KIEFFNER,
Assistant City Solicitor.

Bids close March 31, 1925.

Water Works Intake and Pump Pit.

Hagerstown, Md.

SEALED BIDS will be received by the Board of Water Commissioners at their office, 118 West Washington street, until 10 o'clock A. M., Eastern Standard time, Tuesday, March 31, 1925, for Contract No. 3, for construction of Potomac River intake, Low Service Pump Pit and Suction Well and Pipe Conduit, extending from the intake to the suction well and passing under the C. & O. canal.

The Intake, with boom, will contain about 1040 cubic yards of concrete, steel racks, etc. The Conduit, about 410 feet in length and varying in depth from 28 to 48 feet, will require about 870 cubic yards of concrete and have two lines of 30-inch cast-iron pipe. The Pump Pit and Suction Well, 48 feet deep, of reinforced concrete, will require about 2430 cubic yards of concrete, together with 30-inch pipe connections and valves, screens, hoists and appurtenances.

Specifications and plans can be obtained at the office of the Board at the above address by prospective bidders. A cash deposit of \$25 will be required for sets of specifications and plans, which will be refunded upon return of sets furnished in good condition.

A certified check in the sum of \$5000 will be required with each bid.

Bids will be publicly opened and read at the time above given.

The Board reserves the right to reject any or all bids.

WILLIAM P. LANE,
President Board of Water Commissioners.
ALBERT HEARD, Secretary.

Bids close March 27, 1925.

Dam and Power House

HYDRO-ELECTRIC DEVELOPMENT.

Franklin, N. C.

Sealed proposals will be received and opened by the Board of Aldermen of Franklin, N. C., at the office of the Mayor, for furnishing all labor and material to construct a dam, power house and other structures at Leopard Bend on the Little Tennessee River, about 3 1/2 miles north of Franklin, North Carolina, at 3 P. M. March 27, 1925.

The work includes approximately 6600 cu. yds. of earth excavation, 3800 cu. yds. rock excavation, 4100 cu. yds. of cyclopean masonry, 700 cu. yds. of mass concrete, 100 cu. yds. of reinforced concrete, 250 cu. yds. of rubble masonry and also the hauling and placing of certain metal work, all complete in place, according to plans and specifications. Said plans and specifications will be on file and may be seen at the office of the Mayor in the Town of Franklin, or at the office of the Engineers, Robert & Company, Inc., Bona Allen Building, Atlanta, Ga., at any time between the date of this notice and 3 P. M. on March 27, 1925. Complete sets of plans and specifications may be obtained from the Engineers on payment of \$25, of which amount \$10 will be refunded on return of plans and specifications.

Each bid must be accompanied by a certified check for \$2000 or a bidder's bond of like amount.

The right is reserved to the Town of Franklin to reject any and all such proposals, and the contract may be awarded in whole or in part to one or more bidders, as considered to be the best interest of the town. All bids will be compared on the basis of quantities as figured by the Engineers.

TOWN OF FRANKLIN, NORTH CAROLINA.
R. D. SISK, Mayor.
H. W. CABE, Clerk.

ROBERT & COMPANY, INC., Engineers,
Atlanta, Georgia.

Bids close March 28, 1925.

School Building

Proposals for the erection of a ten-room brick schoolhouse at Maryland Park, Prince George's County, Md., will be received at the District Line Schoolhouse, Seat Pleasant, Md., care of George Palmer, Chairman, until Saturday, March 28, at 4 P. M. Plans and specifications can be obtained from the undersigned.

Right is reserved to reject any and all bids.

NICHOLAS OREM,
County Superintendent of Schools.
Upper Marlboro, Md.

Bids close March 30, 1925.

Stadium

Columbus, Ga.

Sealed bids for the construction of two sides of a reinforced cement concrete stadium seating 10,000 people and located on the South Commons of the City of Columbus will be received by the City Manager at his office in the Court House, Columbus, Ga., until noon of Monday, March 30, 1925.

The work consisting of the following quantities:

2100 cu. yds. of Concrete.
15 tons of Reinforcing Mesh.
50,000 B. M. Treated Cypress Lumber.
800 lin. ft. 1½-inch Wrought-iron Hand Rail.
1200 lin. ft. 6-inch to 10-inch T. C. Drain Tile.

Plans, specifications and proposal blanks may be secured at the office of the Superintendent of Public Works, in Columbus, or Robert & Co., Architects and Engineers, Bona Allen Building, Atlanta, Ga.

Each bid must be made on standard forms furnished by the City of Columbus and will not be considered unless accompanied by bidder's bond or certified check, made payable to the City of Columbus, amounting to \$2500. Sealed envelope containing bid shall be plainly marked with the name and address of the bidder and the name of the proposed work on the outside.

The successful bidder will be required to give bond.

All formalities will be waived in awarding contract.

WALTER A. RICHARDS,
City Manager.

Bids close April 6, 1925.

Jail

Clarksdale, Miss.

The Board of Supervisors of Coahoma County, Mississippi, will receive sealed bids up until 1 o'clock P. M. on Monday, April 6, 1925, at the office of the Clerk of the Board at Clarksdale, Miss., for the furnishing of all labor and material for the repair and equipment of the old jail at Clarksdale and the construction and equipment of an addition thereto, in accordance with the plans and specifications now on file with Y. E. Howell, Clerk of the Board of Supervisors, at Clarksdale, Mississippi.

All bids must be accompanied by a certified check in the amount of Five Thousand Dollars, payable to the Clerk of the Board of Supervisors of Coahoma County, Miss., the county to retain said sum of \$5000 so deposited by the successful bidder as liquidated damages unless the successful bidder shall execute a contract and bond to guarantee the performance of the contract.

The Board reserves the right to reject any or all bids.

Copies of plans and specifications may be had by application to either Y. E. Howell, Clerk of the Board of Supervisors, Clarksdale, Miss., or Frank P. Gates, Architect, Clarksdale, Miss.

BOARD OF SUPERVISORS OF COAHOMA COUNTY, MISS.
(Seal) By Y. E. HOWELL, Clerk.

Carpentry and Millwork

WANTED—To sublet erecting of carpentry and millwork on several buildings. Apply KING LUMBER COMPANY, Charlottesville, Virginia.

Bids close April 7, 1925.

Generating Set and Boiler

CITY OF RICHMOND, VA.

DEPARTMENT OF PUBLIC UTILITIES. Bids will be received in this office on April 7, 1925, for a new water gas generating set and waste heat boiler for the city gas works.

Specifications may be obtained upon application to the Director of Public Utilities, City Hall.

Bids close March 26, 1925.

Street Name Signs

Proposals will be received by the Mayor and Board of Aldermen of the City of Fayetteville, N. C., until 7:30 P. M. March 26, 1925, for street name signs for naming its streets and avenues.

The city reserves the right to reject any and all bids or to award contract which appears for the best interest of the city.

CITY OF FAYETTEVILLE, N. C.
H. J. McBUIE, City Clerk.

Bids close March 26, 1925.

City Service Truck

Fayetteville, N. C.

Sealed proposals will be received by the Mayor and Board of Aldermen of the City of Fayetteville, N. C., until 7:30 P. M. March 26, 1925, for one standard City Service Motor Ladder Truck.

Motor not less than 60 H. P. A. L. A. M. rating, equipped with sixty-foot extension ladders, chemical tank and hose.

The city reserves the right to reject all bids and to award the contract which may appear to the best interest of the city.

H. J. McBUIE, City Clerk.

CLASSIFIED OPPORTUNITIES

MINERAL AND TIMBER LANDS WATER POWER, MISCELLANEOUS PROPERTIES

GRANITE QUARRIES on railway for sale; also mineral deposits and timber.
W. L. ENGLISH,
Americus, Ga.

FOR SALE—100 acres land containing an inexhaustible quantity of the best Virginia Granite, well located and convenient to the Virginian R. R. Address WALTER L. POWELL, Blackstone, Va.

FOR SALE—1900 acres Florida phosphate lands, 20 miles to deep water; on railroad; fine drainage; good growth timber; splendid agricultural lands; big developments nearby.
H. M. LINDSEY & CO., Mobile, Ala.

NORTHWEST GEORGIA.

The scene of the next great industrial development in Georgia. Electric power available. Large power plants under construction.

For industrial sites; pine and hardwood timber; brick shales; clays; large or small water powers; farms in a prosperous section. Write, with detail, as to your requirements.

C. E. VANCE, Calhoun, Ga.

HIGH-GRADE FLORIDA ROCK PHOSPHATE FOR SALE—Unmined in beds; in fee or on royalty; any size desired; B. P. L. up to 82.64% and better; quantity and quality to be certified; about fifty miles from port at Tampa; all tracts on or nearby railroad; terms to suit purchaser. One special offer of 930 acres, strictly high grade, convenient to railroad, price \$100,000 cash, of which one forty alone is well worth purchase price. Full particulars to principals only. Safe and profitable investment. Write

SOFT PHOSPHATE FERTILIZER COMPANY, INC.,

Stovall Office Building, Tampa, Florida.

MINERAL AND TIMBER PROPERTIES WANTED

WANTED. TO HEAR from parties having mineral properties for sale.
UNITED MINERALS CO., Roanoke, Va.

RATES AND CONDITIONS

Rate 30 cents per line per insertion. Minimum space accepted, four lines. In estimating the cost allow seven words of ordinary length to a line. When the advertisement contains a number of long words proper allowance should be made. Terms: Invariably cash with order; check, postoffice or express order or stamp accepted. No display type used. Questionable or undesirable advertisements will not be accepted. The assistance of our readers in excluding undesirable advertisements is requested. We reserve the right to refuse any advertisement. No patent medicine, oil or mining stock advertisement accepted. Rate for special contracts covering space used as desired within one year as follows: 100 lines, 28c per line; 300 lines, 26c per line; 500 lines or more, 25c per line.

MINERAL AND TIMBER LANDS WATER POWER, MISCELLANEOUS PROPERTIES

TIMBER AND TIMBER LAND

FOR SALE—Timber lands, cut-over lands especially suitable for colonizing, ranching or subdivision, located Alabama and Florida. H. H. WEFEL, JR., Mobile, Alabama.

FOR SALE—Two and a-half million feet, part virgin, part small second-growth, hardwood timber. Five or six million feet adjoining can be bought. A few miles of tramway (grade already built) will connect you with the Western Maryland Railway in Randolph County. This timber is most suitable for the manufacture of barrels for apples and other similar shipments.
JNO. F. NYDEGGER, Elkins, West Va.

FARM AND TIMBER LAND

FOR SALE—1200-Acre Farm and Timber Land; productive soil, 10-room house, tenant houses, 800 acres, oak, chestnut, pine and hickory, mica prospects, Ruby and Rhodolite gems; 10 miles north of Franklin, N. C.; 3 miles of State Highway; title guaranteed. John E. Rickman, Franklin, N. C.

FARM, FRUIT AND TRUCK LANDS

ALABAMA AND FLORIDA

25,000 ACRES FINE LAND in solid body on Alabama-Florida line, part in each state. Excellent for all kinds of truck, also adapted for oranges and pecans. Entire tract offered at \$3.50 per acre. Should sell in forty-acre farms from \$25 to \$40 per acre.

J. E. ROLSTON & CO.,
REALTORS,
MOBILE, ALA.

FLORIDA

FLORIDA INVESTMENTS — Acreage tracts, timber tracts, subdivisions and hotel sites, any section in Florida. Some bargains with quick turnovers and large profits on small investments assured; 25 years' experience. ASK ANYBODY. N. D. SUTTLES & COMPANY, Jacksonville and West Palm Beach, Fla.

WE OWN 12,000 ACRES of Everglade Muck land. Soil over 10 feet deep. Adjoining lands now under cultivation. Sixteen miles of rock-surfaced roads and navigable canals already constructed. This tract fronts on the Cross State Highway. For sale at an attractive price.

CONSOLIDATED REALTY COMPANY,
223 Clematis Ave., West Palm Beach, Fla.

FLORIDA INVESTMENT.

2000 acres high-rolling selected land, adapted to the best production of oranges, grapefruit, tangerines, grapes and other Florida fruits. This is very high-class land, not to be confused with low, flat, cheap lands. Full information on application.

DANIELLS LAND COMPANY,
Eustis, Florida.

FLORIDA—Playground of the Rich; Paradise of the poor. The fastest developing State in the Union, and Roger Babson, the great business statistician says that TAMPA is destined to be the greatest city in the Southeast. Come and be one of us. We have a Home, Grove or Farm for you. Send today for booklet, "Largest Orange Tree in the World," and list. Tampa-West Coast Realty Co. (Inc.), Opp. Postoffice, "Since before the War," Tampa, Fla.

FARM, FRUIT AND TRUCK LANDS

FLORIDA

FLORIDA INVESTMENTS.
Manatee County truck and farm lands. We handle business properties, subdivisions and general real estate. Write for information about this county.

MANATEE LAND SALES CO.,
Bradenton, Fla.

GEORGIA

FOR SALE—10,000 acres Georgia high-grade farm land, almost solid body. Railroad and State Highway running through property. Telegraph, telephone, freight and passenger service. Exceptionally fine cotton-growing land, also adapted for grain and all kinds of truck. Approximately 80% of this land now being cultivated. Splendid climate, artesian water, prosperous section. Ideally located for colonization work. For full particulars write E. J. Guth, Midville, Georgia.

MISSOURI

FARM—Stock Ranch and game preserve. 2400 acres Ste. Genevieve Co., Mo., 58 miles south of St. Louis; 200 acres alluvium bottom and 500 acres of upland under cultivation; 1700 acres in timber, 5 sets of modern buildings, 12 never-failing springs. Price \$30 per acre.

JOHN HERTER, Ste. Genevieve, Mo.

BUSINESS OPPORTUNITIES

PATENT SASH AND SCREEN DOOR.

Sash always with door and adjustable. Full door protection against flies or storm. A winner. Big demand. Sell outright or royalty, or consider partner with money to manufacture. J. D. Sellars, Ritzville, Wash.

MANUFACTURERS—You can participate in Florida's prosperity at minimum cost by distributing your products from centrally located Orlando. We specialize on warehousing and distributing for northern firms. Write us for particulars. Orlando Bonded Warehouse, Inc., Orlando, Fla.

FOR SALE—Gravel pit recently opened on main line Frisco R. R. West of Birmingham, Ala.; 500 acres fine clay, sand and gravel; R. R. siding, steam shovel. A going proposition. Address No. 6440 care of Manufacturers Record, Baltimore, Md.

HOTEL—FOR SALE—HOTEL.
Seventy rooms, completely furnished. On main highway, fine elevation, with commanding view. Historical surroundings. One and one-half hours by hard roads from two large cities. Ample room for expansion and further development. Price and terms most attractive.

S. W. SOWERS & SON,
Hagerstown, Md.

SOUTH GEORGIA—Flour Mill and adjoining warehouse, situated at Dublin, Ga., for sale. Two-story brick flour mill building, with machinery and electric motors complete. Brick warehouse adjoining mill about 90'x200'. Large lot with the property. Excellent opportunity for a Feed and Flour Factory in a very progressive agricultural region. Will sell at once very reasonable. Write or wire Mrs. W. N. Lietch, Eastman, Ga.

POWER CUSTOMER WANTED.
A client of ours owns a local water power from which he can deliver power electrically to manufacturing sites in a live town on the L. & N. R. R. in the mountains of North Georgia. He wants a customer who will contract to buy from 200 to 400 ten-hour horsepower at an attractive price per kilowatt hour. High altitude; excellent climate all the year round; loyal Anglo-Saxon native labor. Address

B. M. HALL & SONS,
Hydraulic Engineers,
Peters Building, Atlanta, Georgia.

SAVE MILLIONS OF DOLLARS YEARLY.
For Sale—Patent coal stove, built on new principles, destined to revolutionize the stove industry; this stove is no theory or blueprint ideas. Three years' test with stove places it beyond the experimental stage and proves conclusively its superiority over every other coal stove; made three-year test; shows fifty per cent saving on fuel. This is a real he-man's proposition of big calibre with broad vision who is willing to be shown and recognize a meritorious article of unlimited possibilities. Curiosity seekers remain away. Address No. 6441, care Manufacturers Record, Baltimore, Md.

BUSINESS OPPORTUNITIES

FOR RENT.

Office space, fully equipped.
HUNTINGTON HOTEL EXCHANGE,
Huntington, West Virginia.

WANTED—An experienced box manufacturer, with some capital, to take over plant not in operation. First National Bank, Meridian, Miss.

FOR SALE—New and modern stiff-mud Brick and Tile Plant. Unlimited amount of Ball Marine and Kaylor Clays. Will sell one-third interest or whole.

T. J. DAVIS, Rudyard, Mich.

CAPITAL WANTED—To develop townsite; on 640 acres that two railroads and state highway cross on in S. E. Oklahoma, surrounded by coal, oil, gas and farming. Write J. E. Cavanagh, McAlester, Okla.

I SPECIALIZE in industrial, warehouse and business sites at and adjacent to Washington, D. C.

M. B. HARLOW,
Harlow Building, Colorado Building, Alexandria, Va. Washington, D. C.

FOR RENT AS WHOLE OR WILL DIVIDE
SHORT OR LONG TERM, WITH
OPTION TO BUY.

4 3-story Brick Factory Buildings, mill construction: 1 2-Story Brick; 1 2-Story Frame; 1 1-Story Frame; 1 Brick Boiler House, with 2 100 H. P. Boilers. Located on entire city block, 300 feet railroad loading platform on Norfolk & Western Railroad tracks. Connects with all railroads and steamships via Belt Line Railroad. Equipped with Grinnell Sprinkler System. Terms and full details as to sizes, etc., on request. Bosman & Lohman Company, Granby and N. & W. terminal tracks, Norfolk, Va.

INDUSTRIES WANTED

DUNNANON, VIRGINIA.

Located on the C. C. & O. Railroad; direct route to the cotton fields and Clinch River, with a gravity flow of 36,000 gallons per minute at low-water mark. Limestone adjoining on the south side and coal adjoining on the north side. Rich and thickly settled farming.

THE HAGAN TRUSTEE SYNDICATE,
Bristol, Va.

LOOKING FOR A LOCATION?
Altavista, located in the Piedmont section of Virginia.

OFFERS
Free Manufacturing Sites.
Virginia City Basic Freight Rates.
Labor in abundance and strikes unknown here.
Ideal Climate and we gladly welcome the chance to "SHOW YOU."
For information apply to
ALTAVISTA CHAMBER OF COMMERCE,
Altavista, Va.

BUSINESS OPPORTUNITY.
Middlesboro, Ky., and surrounding territory needs a modern Brick and Hollow Tile Plant. An excellent deposit of the finest material is ideally located on both the L. & N. and Southern Railway. Material has been thoroughly tested out and the property core drilled. Finished product can be manufactured at exceptionally low cost. This proposition will warrant the closest investigation. Communicate with E. P. Nicholson, Middlesboro, Ky.

MR. NORTHERN MANUFACTURER—Come South. Come to the best State in the South, North Carolina. Come to the best Town in this State. DURHAM. Five competing lines of railways, on National Highway, and concrete roads leading in all directions. Ideal climate, experienced textile labor, taxes and labor reasonable. I have to offer manufacturing site, containing six acres of land, 590 feet on railroad siding, that goes with property, connecting with all railroads; other trackage on property. One two-hundred-and-fifty h.p. Houston & Gamble engine, two one-hundred-and-fifty h.p. boilers already installed in A1 condition. This property is located in the city limits of Durham, a city of forty thousand population, the home of Duke University. The above site is ideal for textile, ice and cold storage, woodworking plant or any other industrial plant. Will take pleasure in giving any information to interested firms or individuals. Address
E. A. HUGHES, Durham, N. C.

INDUSTRIES WANTED

NOTICE, INVESTORS—Good, cheap building sites near great electric power plant. Low power rates; free taxes; two railroads. Address Sec'y Chamber Commerce, Burgin, Ky.

MANNING, CLARENDON COUNTY, S. C., WANTS INDUSTRIES—Offers advantages of a fine climate, good schools and churches, cheap labor, fine artesian water. City paved and sewer, health unsurpassed, best living conditions. For particulars write CHAMBER OF COMMERCE.

INDUSTRIAL PLANTS

FOR SALE—One flour mill complete; practically new.

Z. V. RAWLS,
Bayboro, N. C.

If interested in buying
A SOUTHERN COTTON MILL
Write to

F. C. ABBOTT & COMPANY,
Charlotte, N. C.

26 years' experience in Southern Mill Stocks.

INDUSTRIAL PLANT—City of 40,000, on Hudson River, two hours New York. Last used by chemical company. Suitable for any industry. On trolley line and railroad siding. Water and rail shipments; 8 brick and frame buildings, equipped with steam heating plant and radiators, artesian well and storage tank, electricity for power and light; 7½ acres of land, affording plenty of room for expansion. Conservative appraisal, \$78,000, sell for \$31,500 on very attractive terms; immediate possession. EDWARD C. DAYTON, Realty Specialist, Poughkeepsie, N. Y.

PATENT ATTORNEYS

PATENTS—Booklet free. Highest references. Best results. Promptness assured. Watson E. Coleman, Patent Lawyer, 644 G St. N. W., Washington, D. C.

PATENT-SENSE—The book for Inventors and Manufacturers—free on request. Lacey & Lacey, Patent and Trade-Mark Lawyers, 735 F St., Washington, D. C. Established 1869. Corporation References.

PATENTS—TRADEMARKS—COPYRIGHTS
Write for our free Guide Books and "RECORD OF INVENTION BLANK" before disclosing inventions. Send model or sketch and description of your invention for our free Examination and Instructions. Highest references. Reasonable terms. VICTOR J. EVANS & CO., 712 Ninth, Washington, D. C.

INVENTORS—Send sketch or model of your invention, for opinion concerning patentable nature, and exact cost of applying for Patent. Book "How to Obtain a Patent," sent free. Gives information on patent procedure and tells what every inventor should know. Established 25 years. Chandee & Chandee, 412 Seventh St. N. W., Washington, D. C.

MANUFACTURERS AGENT

CALLING ON ARCHITECTS and contractors to secure sales on newly-developed, high-grade commercial Kalamein Door, sold at prices on which large volume can be developed. No. 6433, care Manufacturers Record.

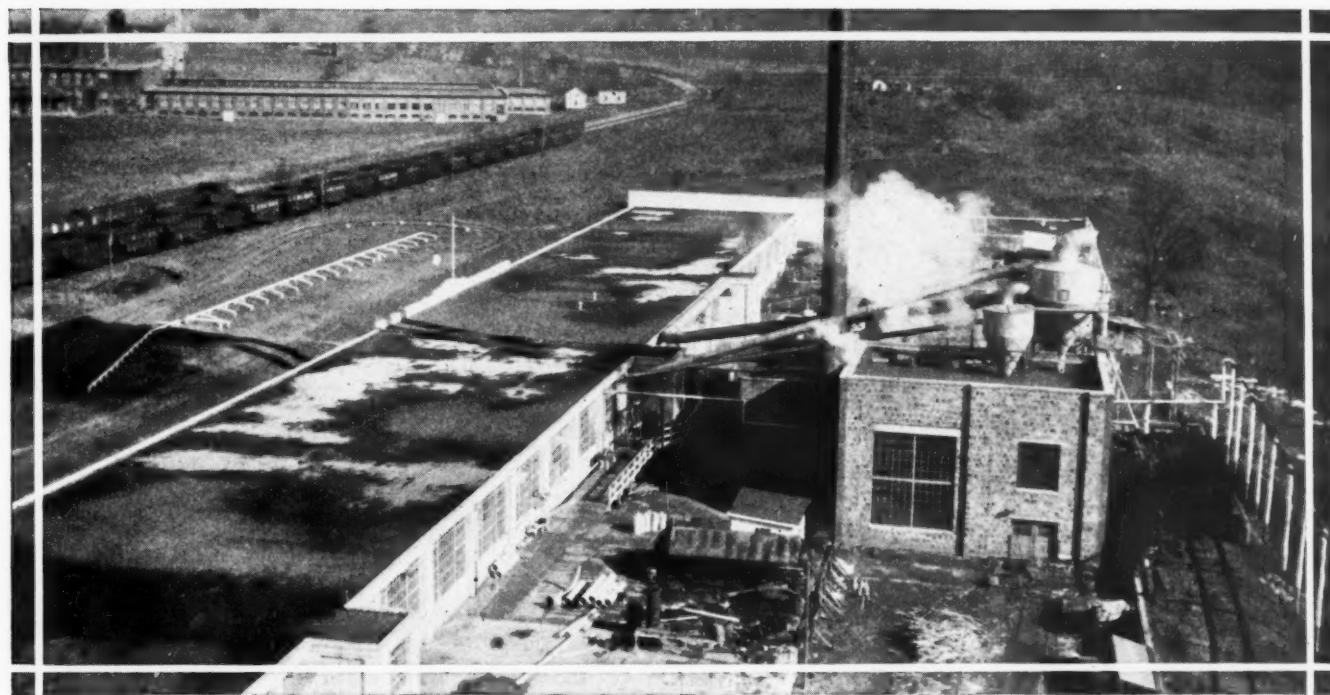
AGENCIES WANTED

WANTED—PRODUCT to handle in this territory, construction line preferred.
316 West Forty-second Street,
SAVANNAH, GEORGIA.

REPRESENTATIVE, experienced salesman, calling on all industries in both Carolinas, desires one additional line. Must be first-class proposition. Highest recommendations are available. Please address
P. O. Box 1418,
Charlotte, N. C.

SITUATIONS WANTED

MACHINIST, married, six years' experience, desires permanent location with chance for advancement. Good reference. Address No. 6436, care Manufacturers Record, Baltimore, Md.



~in Southern Mills

The ring of the rip-saw and the whirr of the planer in Southern mills mean prosperity. From the Carolinas to Arkansas go Southern pine and cypress to build the homes of the nation.

In these mills are many Kirk & Blum blower installations, keeping lumber finishing machines clear of chips and sawdust, working day after day without a shut-down. These plants with Kirk & Blum systems are the money-making plants, operated by men who judge equipment value by its continuous efficiency, its steady productiveness, and its annual operating cost—not by the mere first cost of installation.

Among these mills are The Lane Co., Inc., Alta Vista, Va.; E. L. Bruce Co., Memphis, Tenn.; Green River Chair Co., Livermore, Ky.; Baldwin Tool Works Co., Parkersburg, W. Va.; Meadow River Lumber Co., Rainelle, W. Va.—all Kirk & Blum equipped.

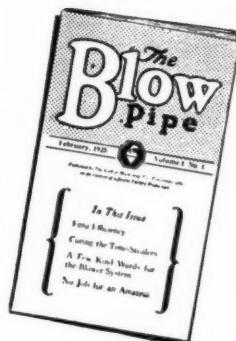
Write for the Kirk & Blum catalog

KIRK & BLUM MFG. CO., Pneumatic Engineers

*Shavings and Dust Collecting Systems, Waste and Fume Removal,
Conveying and Ventilating Systems*

2849 Spring Grove Avenue, Cincinnati, Ohio

KIRK & BLUM BLOWER SYSTEMS



The Blow Pipe is a little magazine written for the men who are responsible for efficient shop production. It is intended to be helpful—not merely entertaining. There is no subscription price. Write to have your name placed on the mailing list.



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Don't Experiment!

DON'T figure on the first cost when you want long life and 100 per cent efficiency.

NEWPORT CULVERTS will stand the test of time and depreciation. Their lasting qualities have been tried by Nature and found to be assured facts.

MADE of "Genuine Open Hearth Iron," (look for the Trade-Mark shown at the left) which is 99.875 per cent Pure Iron-Copper Alloy, the greatest rust-resisting metal known. Newport Culverts are no experiments.

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THE NEWPORT CULVERT CO.
325 10th St. Newport, Ky.

